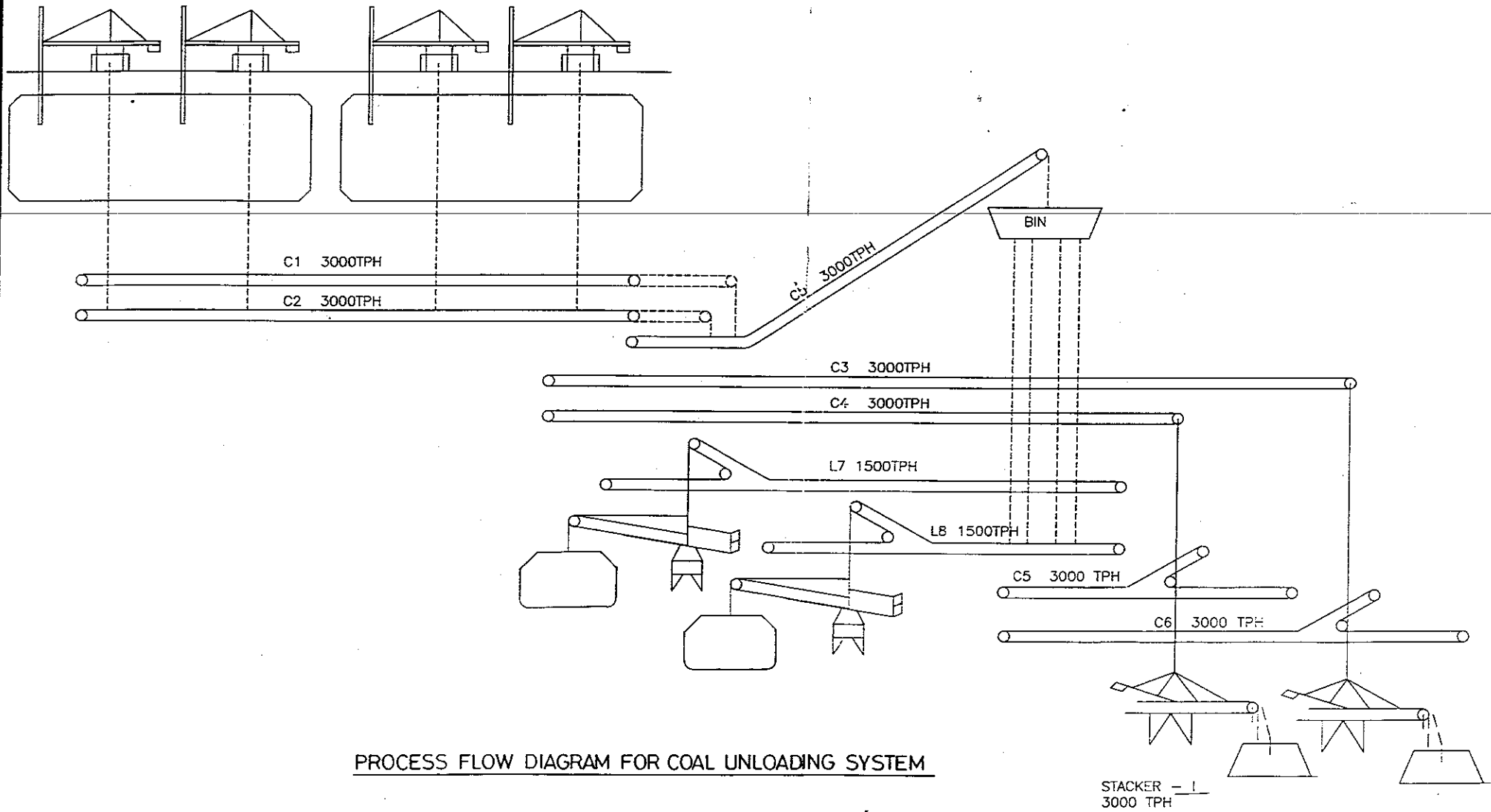
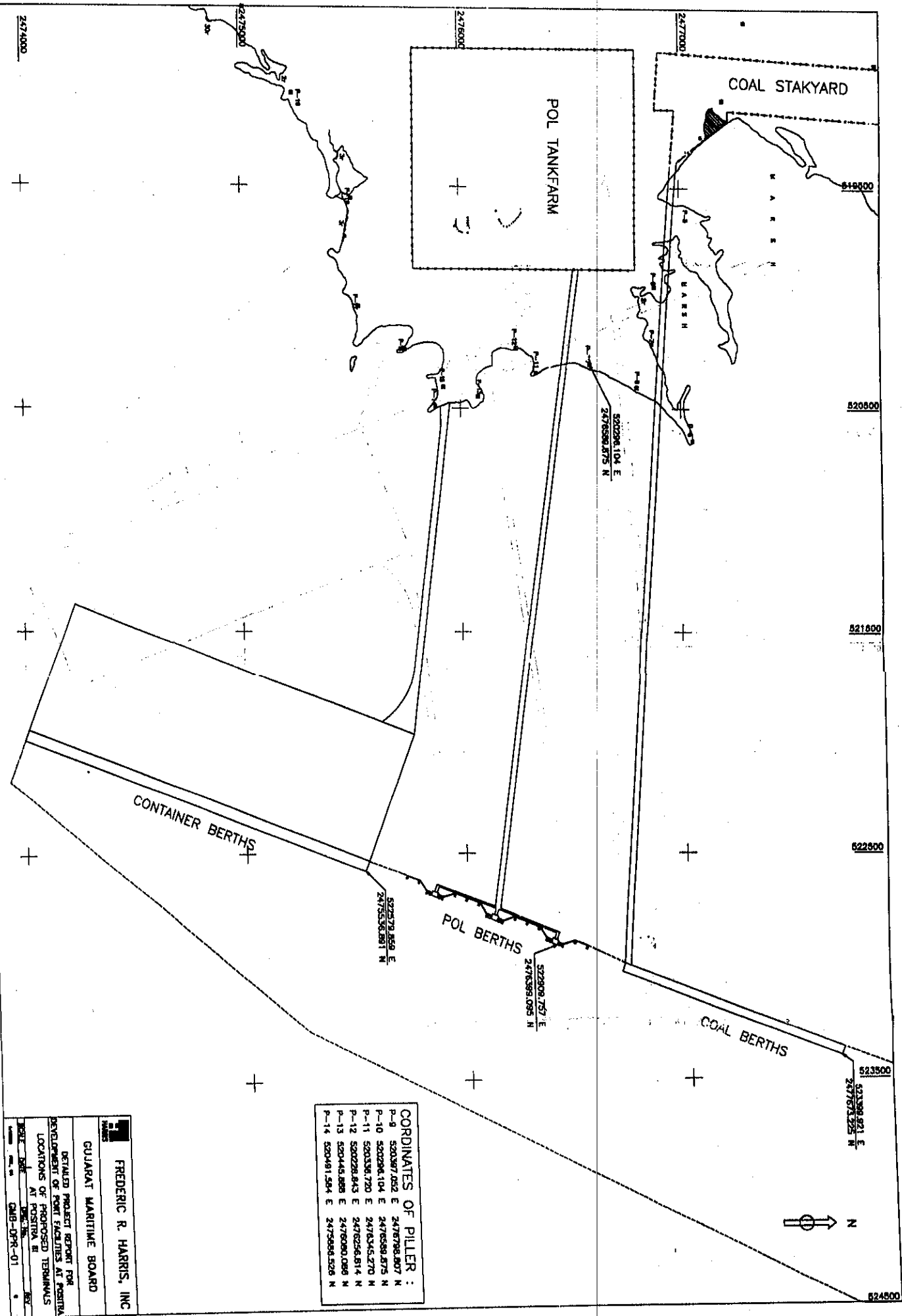


4 NOS. SHIP UNLOADERS 1500TPH EACH

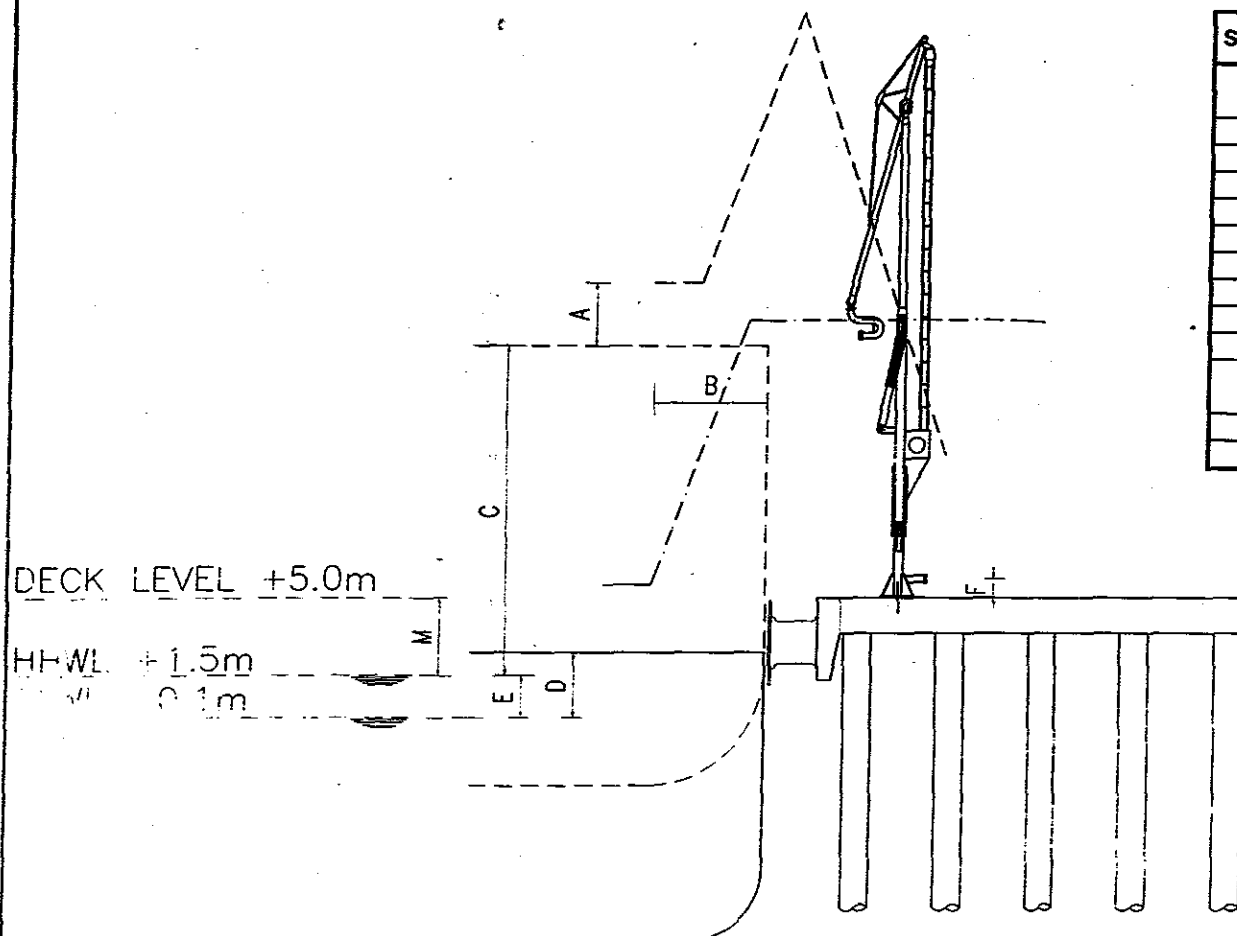




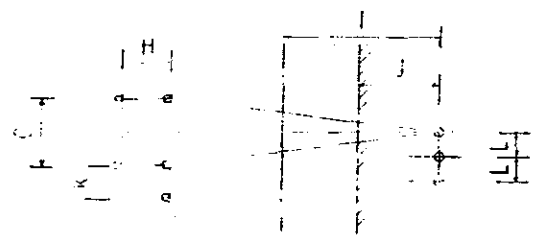
COORDINATES OF PILLER :

P-8	520297.052 E	247878.807 N
P-10	520296.104 E	247858.875 N
P-11	520336.720 E	247834.270 N
P-12	520228.843 E	247824.814 N
P-13	520445.889 E	247808.088 N
P-14	520491.294 E	247566.526 N

FREDERIC R. HARRIS, INC.	
GUJARAT MARITIME BOARD	
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITRA LOCATIONS OF PROPOSED TERMINALS LOCATIONS AT POSITRA II	
DATE: 2006 DRAWN BY: GMB-DPR-01	REV:



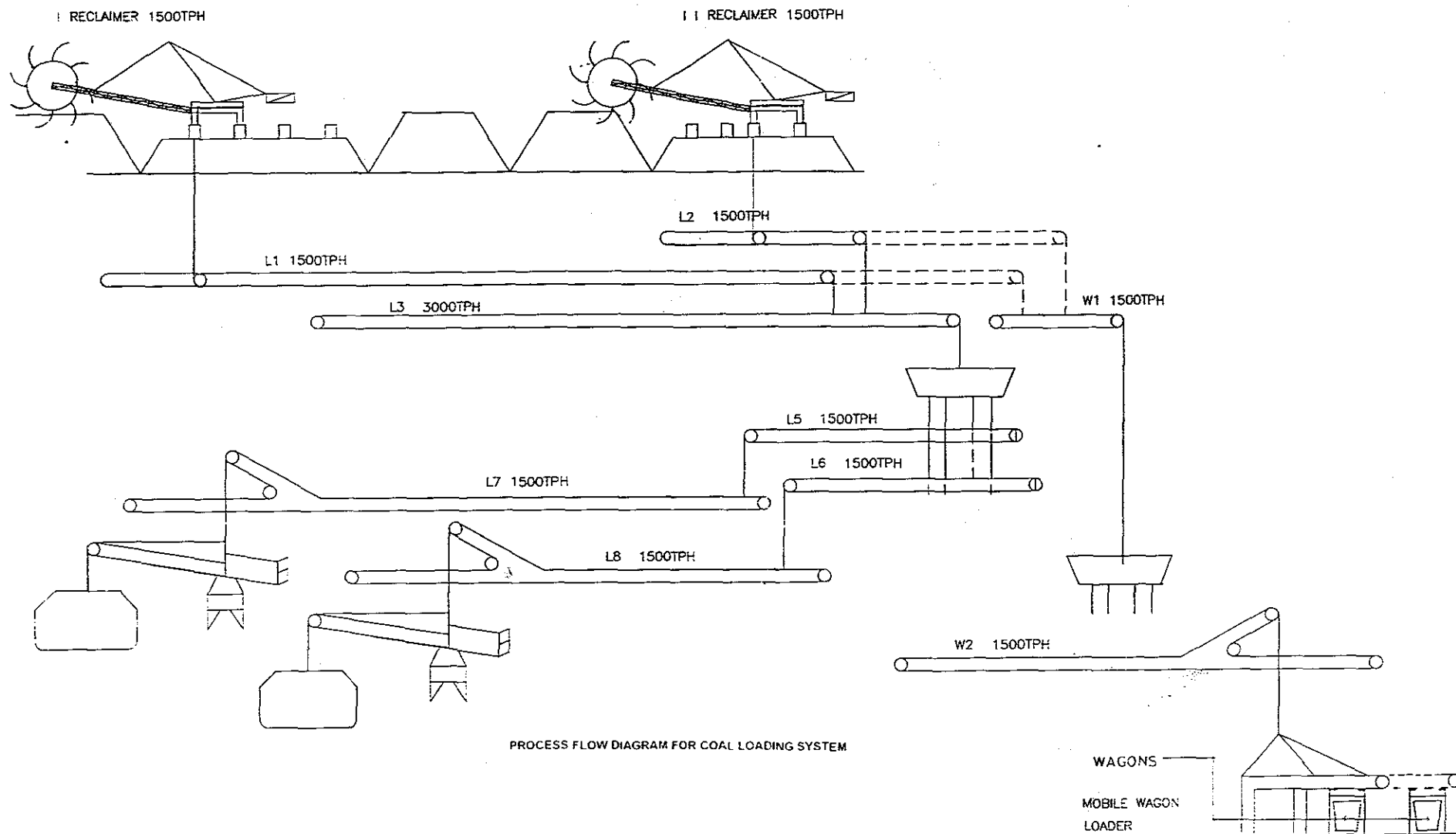
ELEVATION



PLAN

S. NO.	PARTICULARS	DIMENSIONS (mm)
A	HEIGHT OF FLANGE FROM DECK	900 (MIN) 2100 (MAX)
B	DISTANCE OF FLANGE FACE TO VESSEL SIDE	4600
C	VESSEL DECK TO H.H.W.L.	14000
D	VESSEL DECK TO L.L.W.L.	2900
E	MAXIMUM VARIATION IN WATER LEVEL	4370
F	JETTY TOP TO FLANGE	1200
G	SURGE FORE AND AFT	+3000
H	SWAY	3000
I	DISTANCE FROM FENDER FACE TO RISER	5000
J	DISTANCE OF RISER TO EDGE OF SERVICE PLATFORM	3000
K	FLANGE SPACING ON VESSEL MANIFOLD	1100 (MIN) 2100 (MAX)
L	RISER SPACINGS ON DECK	3000
M	JETTY TOP TO H.H.W.L.	2800

FIGURE 3-1



Gujarat Maritime Board
Ahmedabad

DEVELOPMENT OF PORT FACILITIES AT POSITRA

DETAILED PROJECT REPORT - Final Report

Volume II : Drawings



HARRIS Frederic R. Harris, Inc.

in association with

I.I.T., Madras

I.C.T. Pvt. Ltd., New Delhi

W.I.I.T. Ltd., Mumbai

DEVELOPMENT OF PORT FACILITIES AT POSITRA

DETAILED PROJECT REPORT

VOLUME II : DRAWINGS

LIST OF DRAWINGS

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GMB/DPR/SEC2/01	Location of Coal terminal
GMB/DPR/SEC2/02	Layout of Coal terminal
GMB/DPR/SEC2/03	Layout Plan of Coal berth
GMB/DPR/SEC2/04	Structural GA of coal berths
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GMB/DPR/SEC2/04	Typical cross-section of Coal berth
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GMB/DPR/SEC2/05	Layout plan of Coal approach jetty
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GMB/DPR/SEC2/06	Layout of coal stackyard
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GMB/DPR/SEC2/08	Operation building and control office
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GMB/DPR/SEC2/08	Operation building and control office
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GMB/DPR/SEC2/10	Gate house
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(Sheet 1 of 2)	
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GMB/DPR/SEC2/13 (Sheet 1 of 1)	Yard office
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GMB/DPR/SEC2/14 (Sheet 1 of 2)	Quay office
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GMB/DPR/SEC2/16 (Sheet 1 of 2)	Pump house
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GMB/DPR/SEC2/17 (Sheet 1 of 2)	Fire Station
GMB/DPR/SEC2/17 (Sheet 2 of 2)	Fire Station
GMB/DPR/SEC2/18 (Sheet 1 of 2)	Store Shed
GMB/DPR/SEC2/18 (Sheet 2 of 2)	Store Shed

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GMB/DPR/SEC3/01	Piping arrangement at POL berths
GMB/DPR/SEC3/02	Product flow diagram from berths to tankfarm
GMB/DPR/SEC3/03	Location of POL terminal
GMB/DPR/SEC3/04 (Sheet 1 of 2)	Layout of POL Berths
GMB/DPR/SEC3/04 (Sheet 2 of 2)	Layout of POL Berths
GMB/DPR/SEC3/05	Layout of Service Platform
GMB/DPR/SEC3/06	Details of Breasting Dolphin
GMB/DPR/SEC3/07	Details of Mooring Dolphin
GMB/DPR/SEC3/08 (Sheet 1 of 3)	Structural Arrangement of Service Platform
GMB/DPR/SEC3/08 (Sheet 2 of 3)	Structural Arrangement of Service Platform
GMB/DPR/SEC3/08 (Sheet 2 of 3)	Structural Arrangement of Service Platform
GMB/DPR/SEC3/09	Structural Arrangement of Approach Trestle
GMB/DPR/SEC3/10	Tankfarm Layout
GMB/DPR/SEC3/11	Typical Details of Cone Roof Tanks
GMB/DPR/SEC3/12	Typical Details of Floating Roof Tanks
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GMB/DPR/SEC3/14	Bay Configuration in TLF Gantry

GMB/DPR/SEC3/15	Typical Section of TLF Gantry
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GMB/DPR/SEC3/23	First aid/Medical and Laboratory Room
(Sheet 2 of 2)	
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(Sheet 1 of 2)	
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GMB/DPR/SEC3/35	Details of Oil Water Separator

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GMB/DPR/SEC4/02	Layout of Container Terminal
GMB/DPR/SEC4/03 (Sheet 1 of 3)	Structural arrangement of Container Berths
GMB/DPR/SEC4/03 (Sheet 2 of 3)	Structural arrangement of Container Berths
GMB/DPR/SEC4/03 (Sheet 3 of 3)	Structural arrangement of Container Berths
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GMB/DPR/SEC4/04 (Sheet 2 of 3)	Layout of Terminal Office Building
GMB/DPR/SEC4/04 (Sheet 3 of 3)	Layout of Terminal Office Building
GMB/DPR/SEC4/05 (Sheet 1 of 2)	Layout of Terminal Gate House
GMB/DPR/SEC4/05 (Sheet 2 of 2)	Layout of Terminal Gate House
GMB/DPR/SEC4/06 (Sheet 1 of 2)	Layout of Maintenance and Repair Shop
GMB/DPR/SEC4/06 (Sheet 2 of 2)	Layout of Maintenance and Repair Shop
GMB/DPR/SEC4/07 (Sheet 1 of 3)	Layout of Container Freight Station
GMB/DPR/SEC4/07 (Sheet 2 of 3)	Layout of Container Freight Station
GMB/DPR/SEC4/07 (Sheet 3 of 3)	Layout of Container Freight Station
GMB/DPR/SEC4/08 (Sheet 1 of 2)	Layout of Building to Store Crane Spare Parts
GMB/DPR/SEC4/08 (Sheet 2 of 2)	Layout of Building to Store Crane Spare Parts

Section 5: Utilities

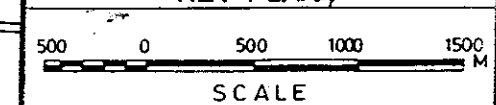
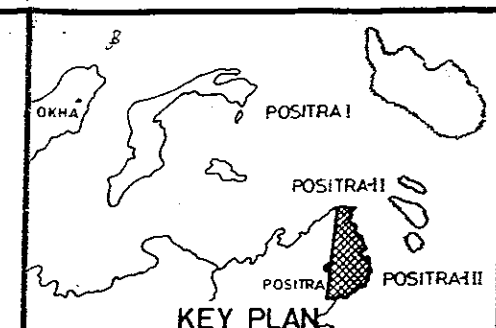
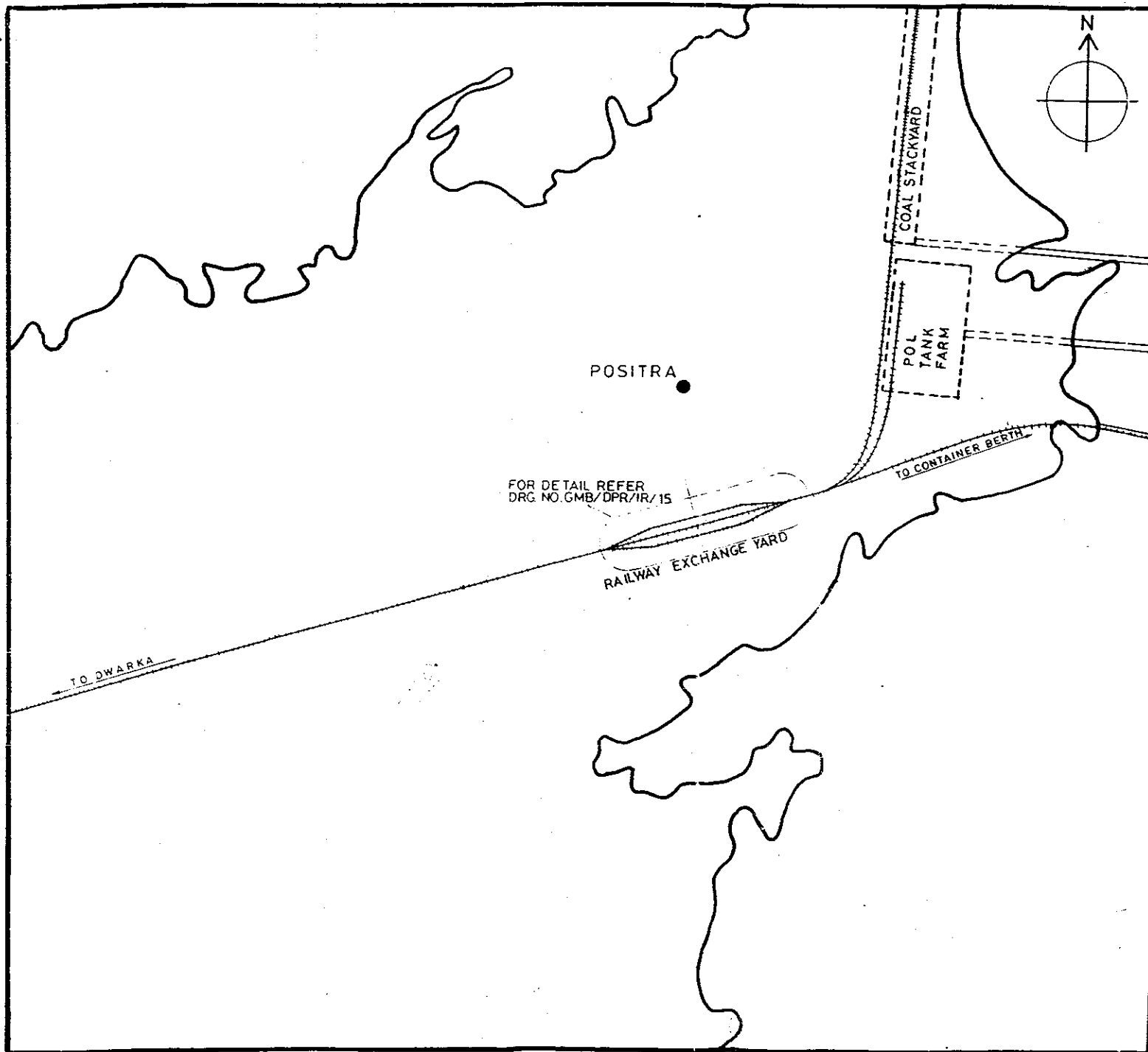
GMB/DPR/SEC5/01	Overhead Tank
GMB/DPR/SEC5/02	Single Line Diagram for Toal Terminal
GMB/DPR/SEC5/03 (Sheet 1 of 2)	Single Line Diagram for POL Terminal
GMB/DPR/SEC5/03 (Sheet 2 of 2)	Single Line Diagram for POL Terminal
GMB/DPR/SEC5/04	Single Line Diagram for Container Terminal
GMB/DPR/SEC5/05	Single Line Diagram for Entire Port

Section 6 : Port Operations

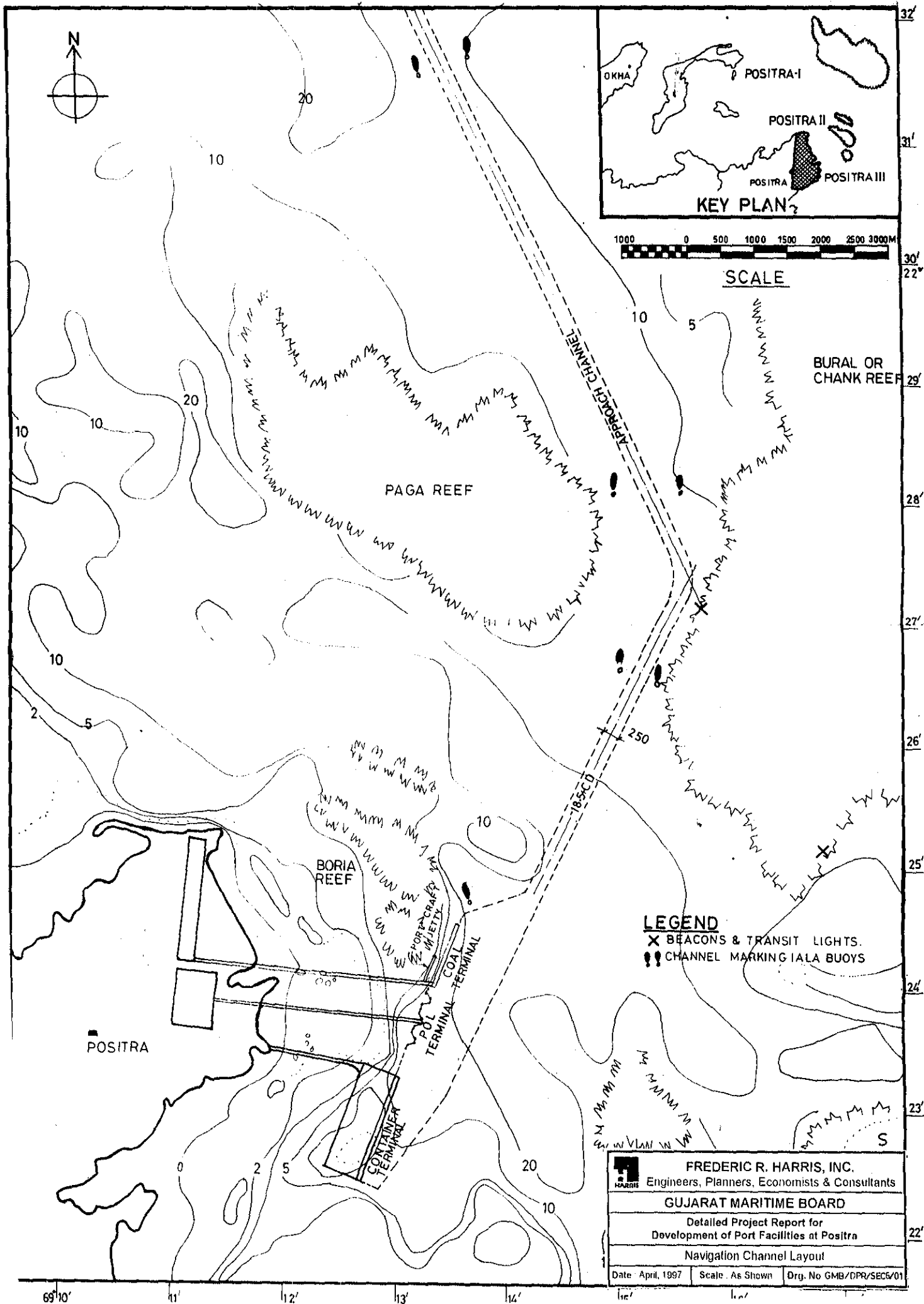
GMB/DPR/SEC6/01	Navigational Channel Layout
GMB/DPR/SEC6/02	Location of Railway Exchange Yard
GMB/DPR/SEC6/03	Layout of Railway Exchange Yard

Section 9 : Advice on Further Investigations

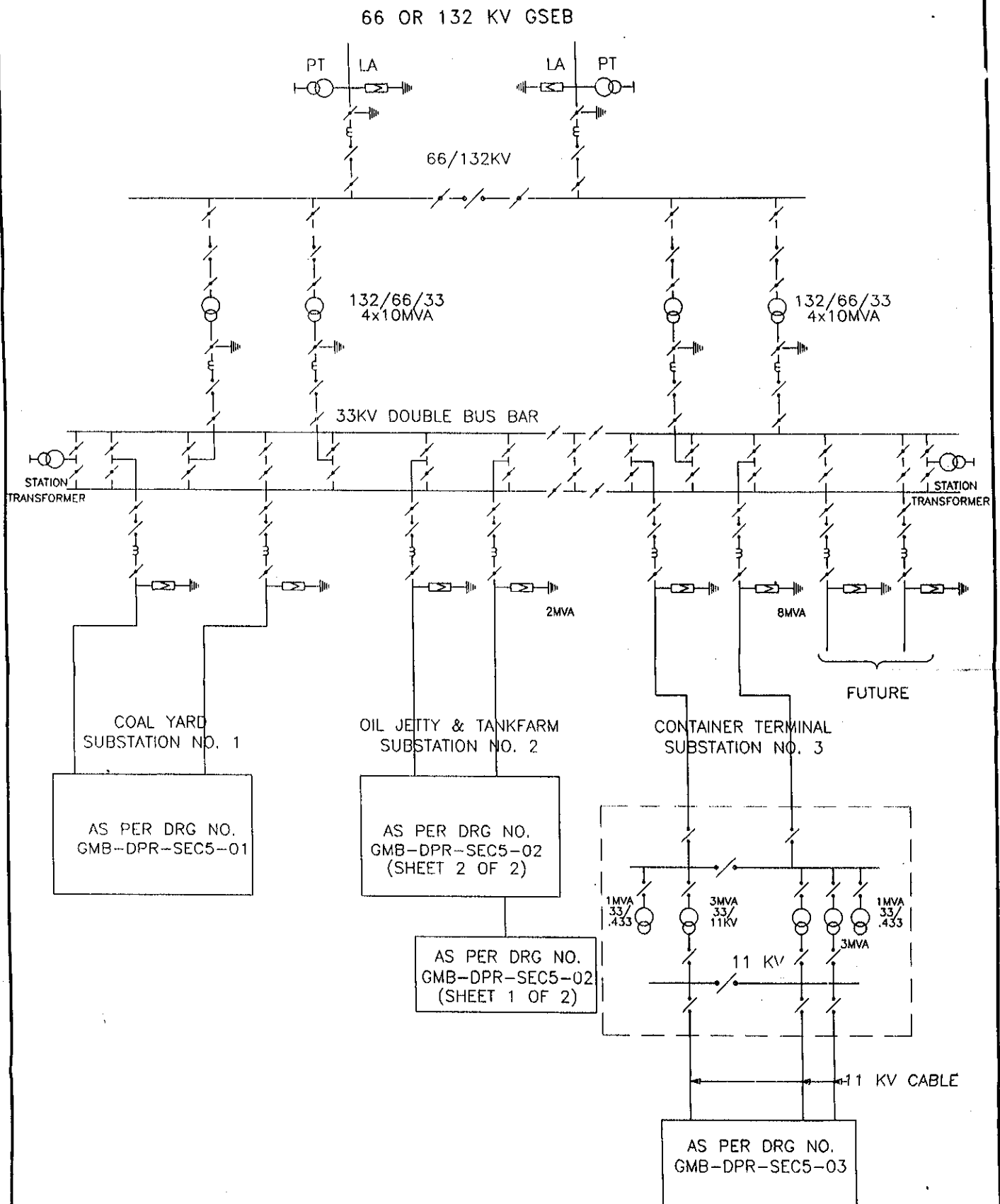
GMB/DPR/SEC9/01	Seabed Engineering and Oceanographic Investigations
GMB/DPR/SEC9/02	Proposed Geotechnical Investigations at Positra III



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	Detailed Project Report for Development of Port Facilities at Positra		
	Location of Railway Exchange Yard.		
	Date: April 1973	Scale: As Shown	Drg. No GMB/DPR/CE-462

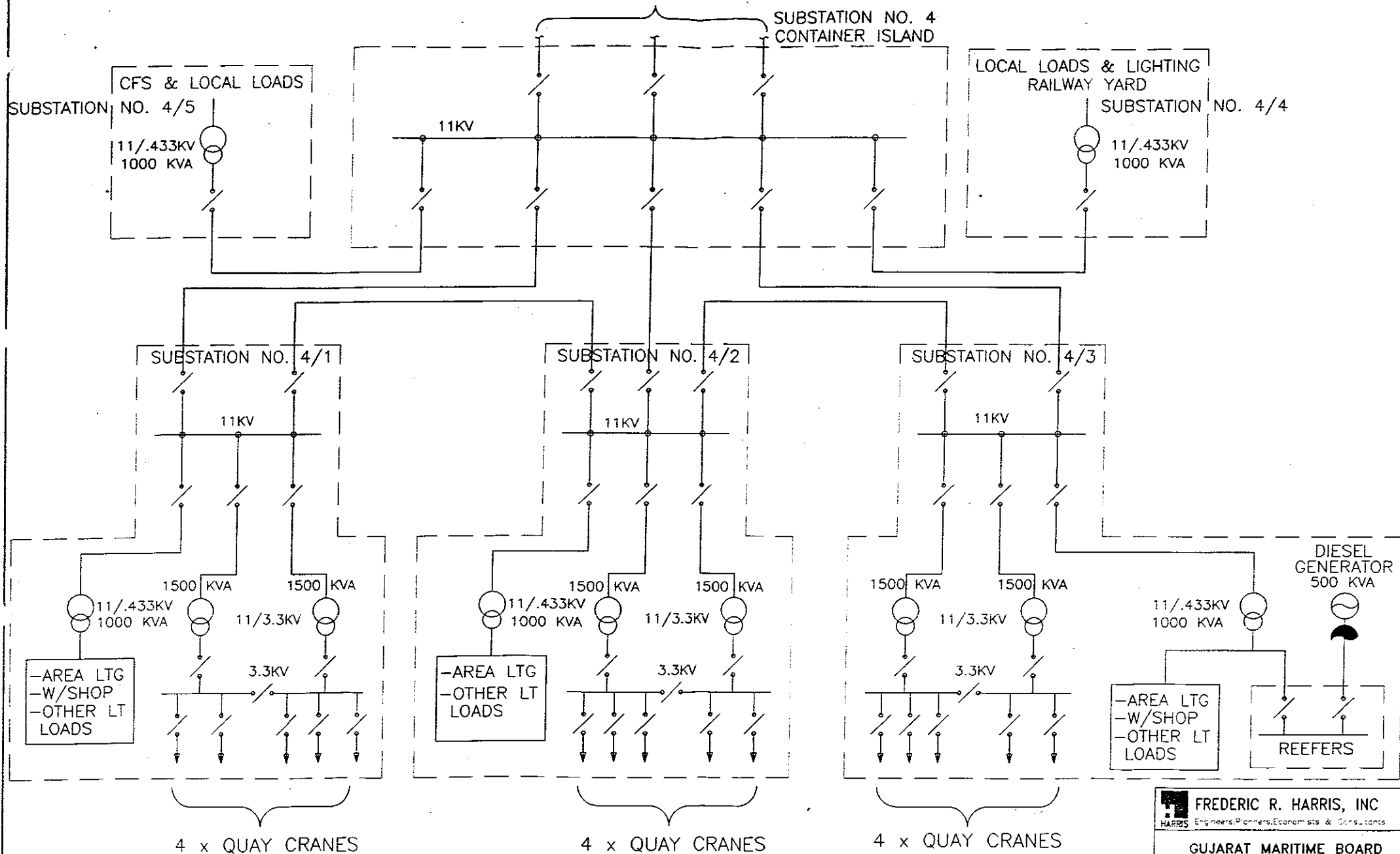


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	Navigation Channel Layout		
Date: April, 1997	Scale: As Shown	Drg. No GMB/DPR/SEC/01	



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SINGLE LINE DIAGRAM FOR ENTIRE PORT			
SCALE	DATE	DRG. No.	REV
-	DEC. 97	GMB-DPR-SEC5-05	0

3 x 11KV FEEDERS FROM 33/11KV SUBSTATION NO.3 ON LAND



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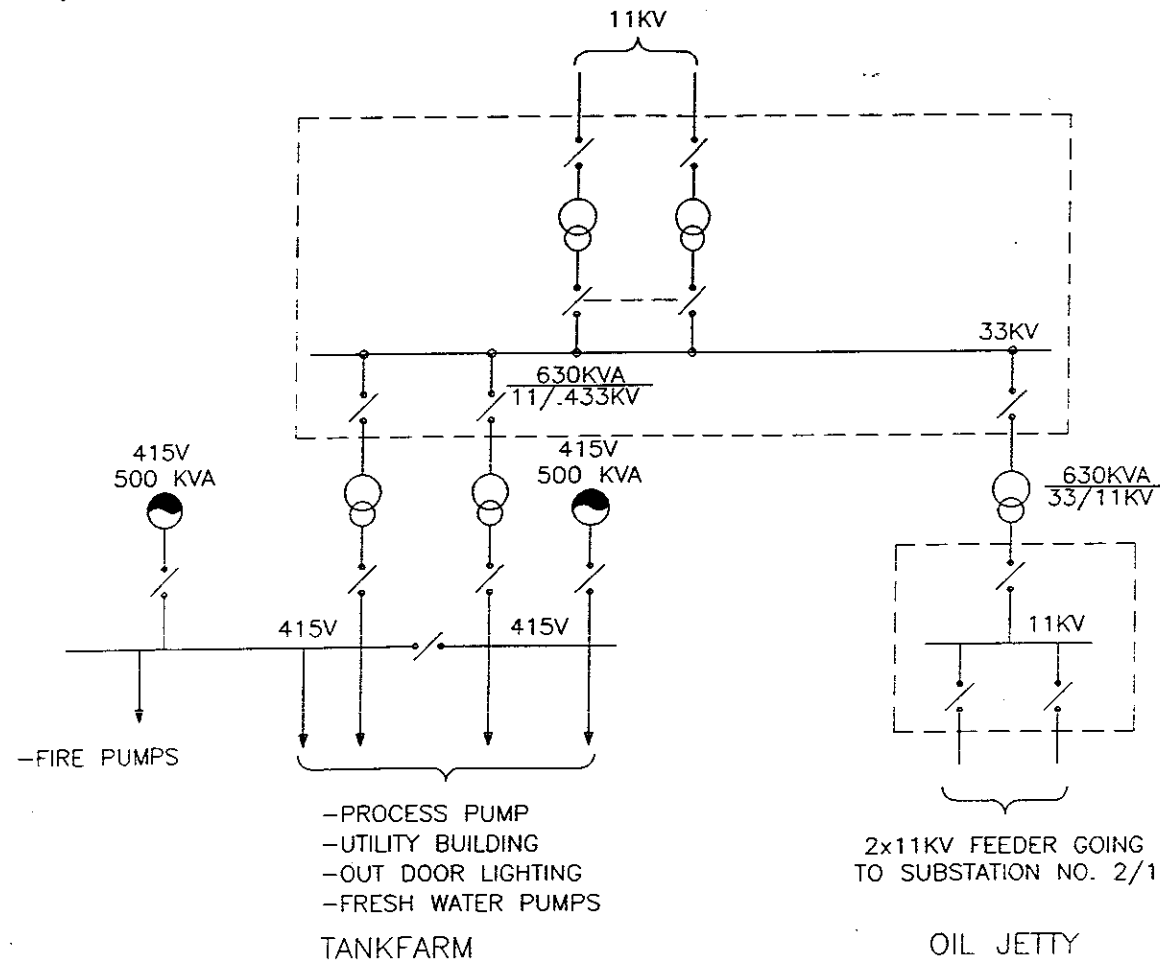
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SINGLE LINE DIAGRAM FOR CONTAINER
 TERMINAL SUBSTATION NO.4

SCALE	DATE	DRG. No.	REV
1:1	01/01/01	GMB-DPR-SFC5-04	1

33KV CABLE FROM MRSS



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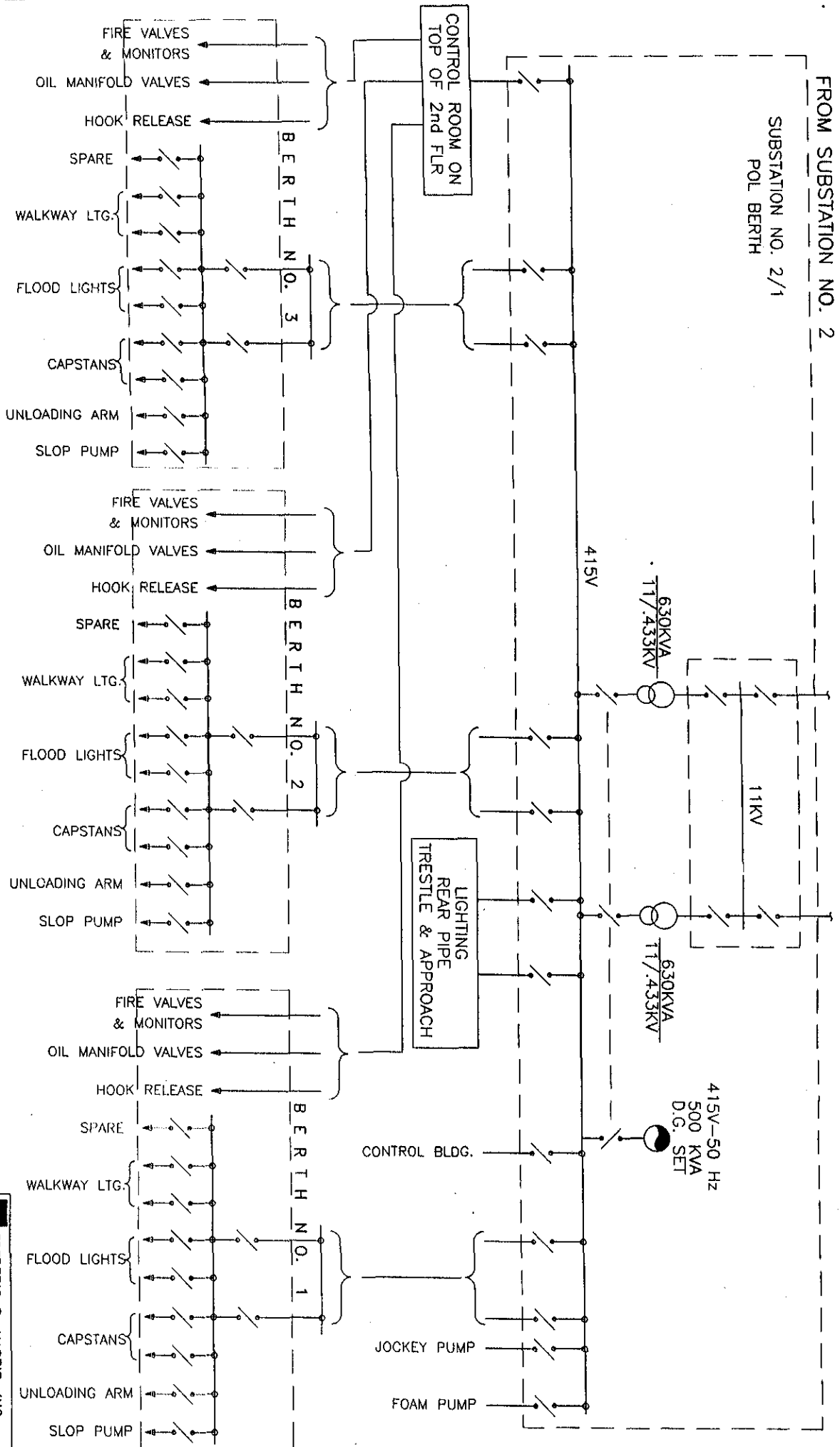
DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT POSITRA

SINGLE LINE DIAGRAM FOR TANKFARM AREA

SCALE	DATE	DWG. No.	REV
—	DEC-87	CMB-DPR-SECS-03 CH-007 : OF 20	0

FROM SUBSTATION NO. 2

SUBSTATION NO. 2/1
POL BERTH



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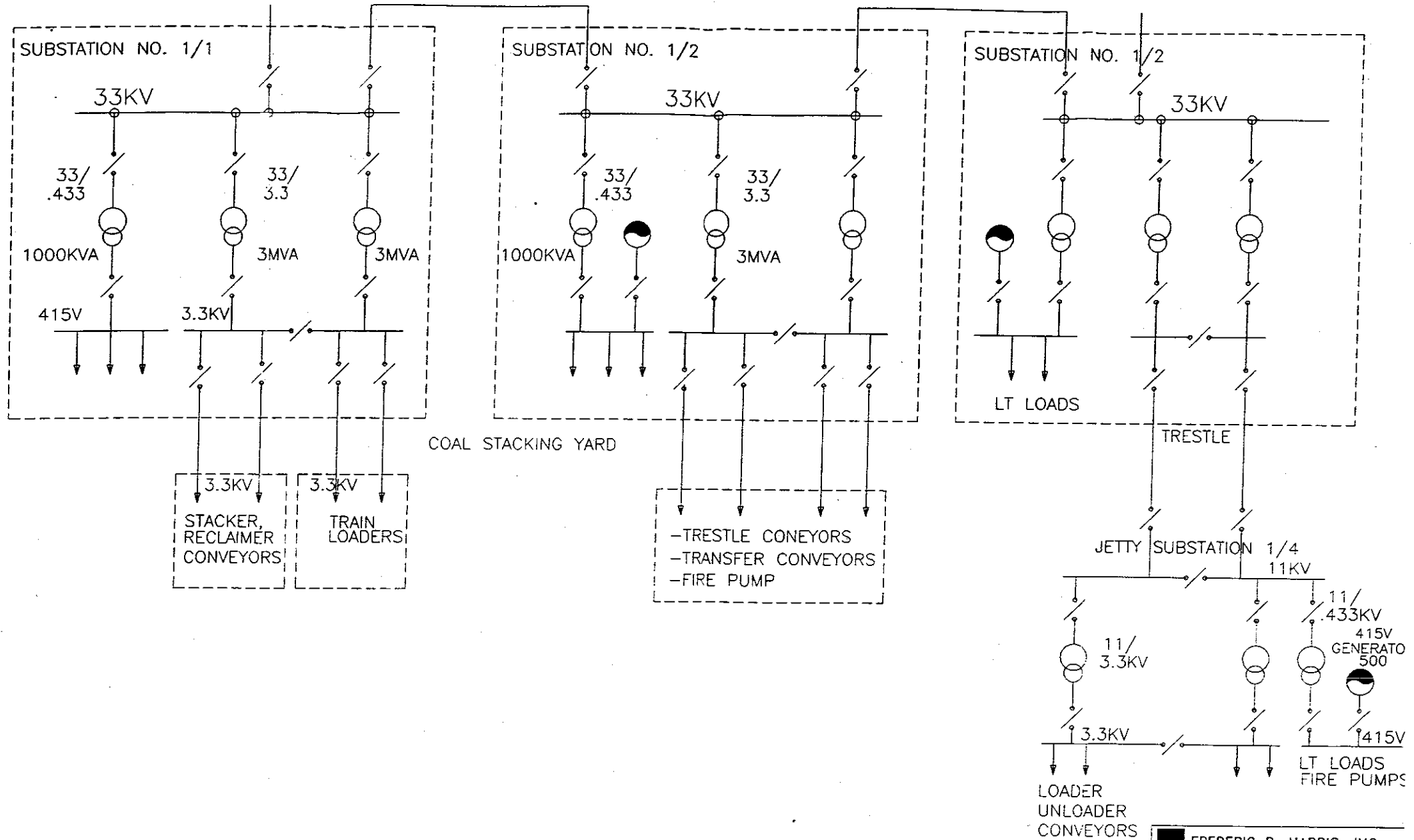
GUJARAT MARITIME BOARD

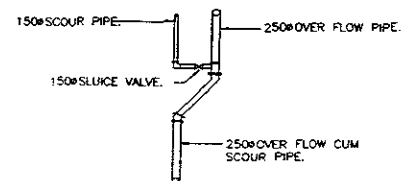
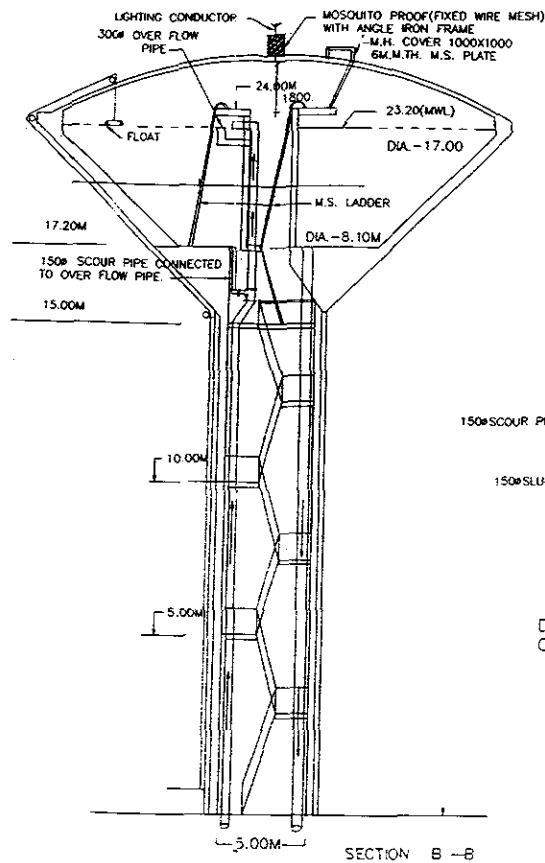
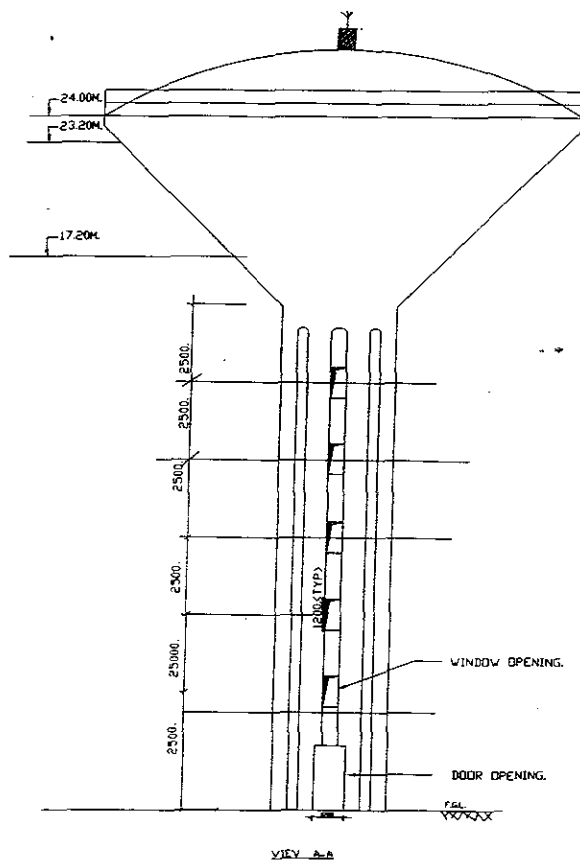
DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT POSTRA

SINGLE LINE DIAGRAM FOR POL BERTHS

SCALE	DATE	DES. No.	REV.
1:1	08-08-83	03	0

COAL YARD SUBSTATION NO. 1

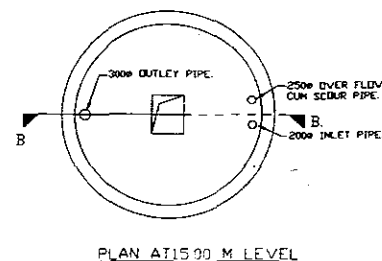
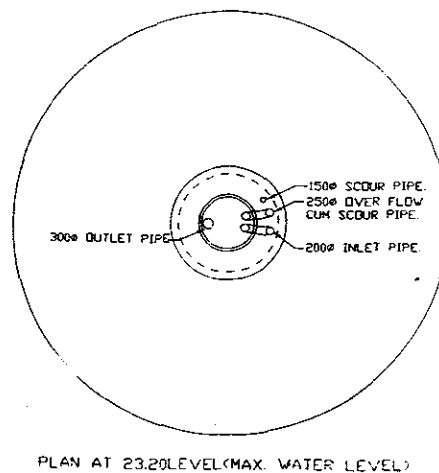
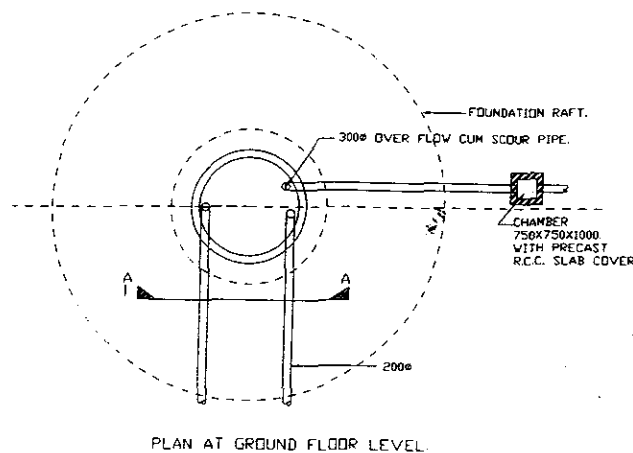




DETAIL OF OVER FLOW CUM SCOUR PIPE.

NOTES

- 1 ALL DIMENSIONS ARE IN M.M. UNLESS OTHERWISE STATED.
- 2 THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO.
- 3 ALL PIPES & FITTINGS SHALL BE OF C.I. WITH DOUBLE FLANGED ENDS.
- 4 ALL PIPES SHALL BE OF CLASS A CONFORMING TO I.S. 1536 & FITTINGS CONFORMING TO I.S. 1538.
5. OVER HEAD TANK SHALL BE PROVIDED WITH WATER LEVEL INDICATOR OF APPROVED TYPE / MAKE.
- 6 ALL PIPES SHALL BE OF SUITABLY CLAMPED ALONG THE THE R.C.C. WALL OF THE TANK.
- 7 ALL STEEL WORKS SHALL BE PAINTED WITH ANTICORROSIVE PAINT OF APPROVED QUALITY & COLOUR.
- 8 FOR LOCATION OF O.H.T. REFER WATER SUPPLY DISTRIBUTION SYSTEM DRG.
- 9 ALL SLUISE VALVES PROVIDED WILL BE CLASS PN1 CONFORMING TO I.S. 780.
10. DONOT SCALE THE DRAWING. FOLLOW THE WRITTEN DIMENSIONS.

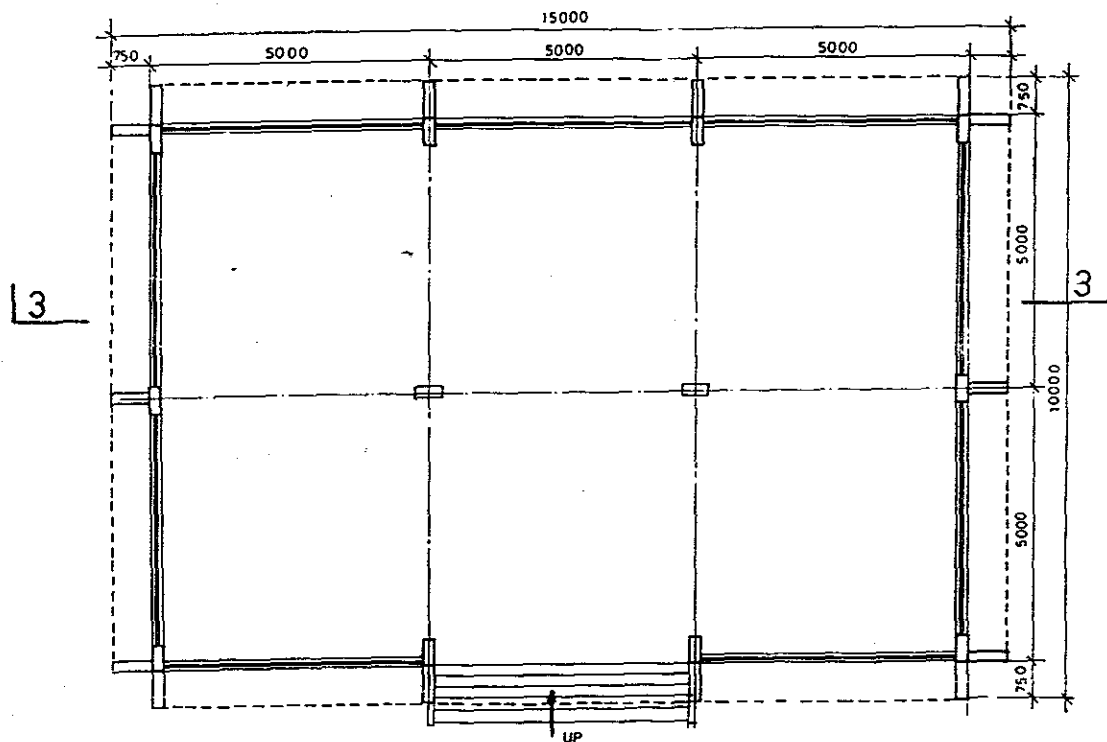


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Detailed Project Report for
Development of Port Facilities at Positra

Overhead Water Tank

PROJECT	Scale	Date	Drg. No.	Rev
DESIGNED	As Shown	Dec., 1997	GMB-DPR-SEC-5-01	0
CHECKED				
DRAWN				
TITLE				

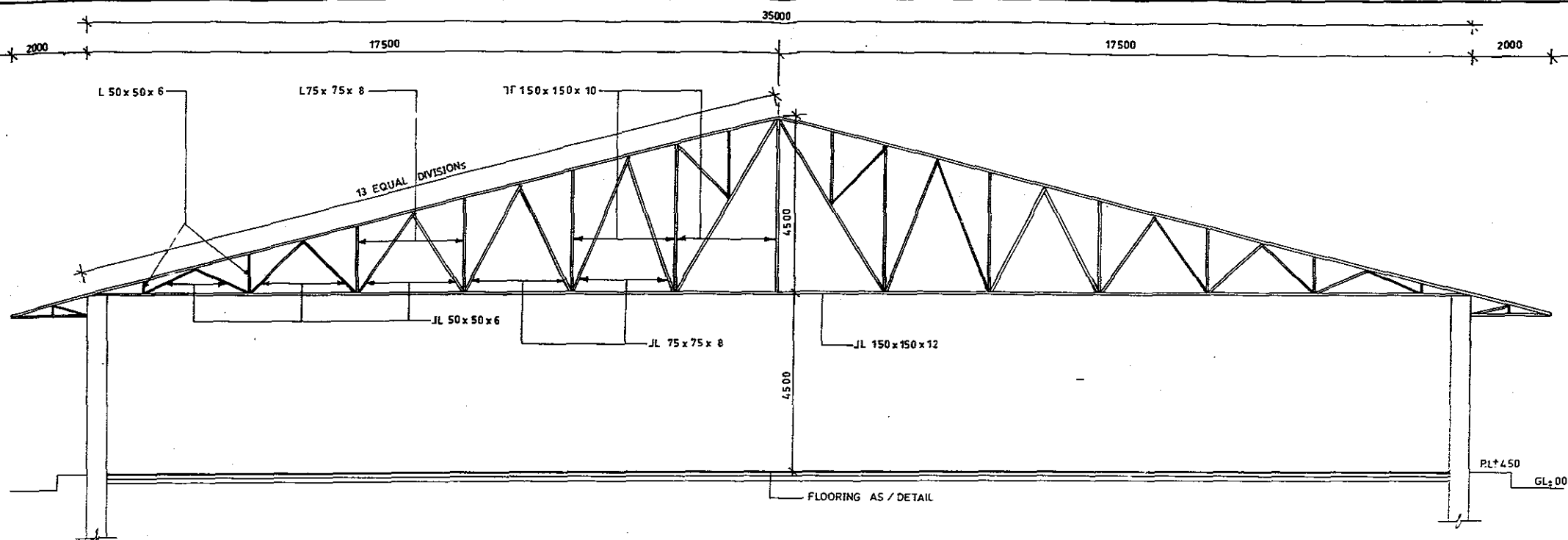


Building To Store Crane Spare Part

Area - 15.0 x 10.0 m
SCALE - 1:100

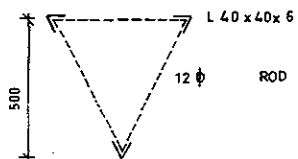
Container Terminal - 3(ii)

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Detailed Project Report for Development of Port Facilities at Positra			
Building to Store Crane Spare Parts			
Scale	Date	Dwg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 4-08 (Sheet 1 of 2)	0

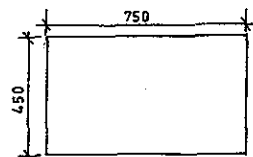


TYPICAL TRUSS DETAIL FOR CONTAINER FREIGHT STATION

SCALE - 1: 100

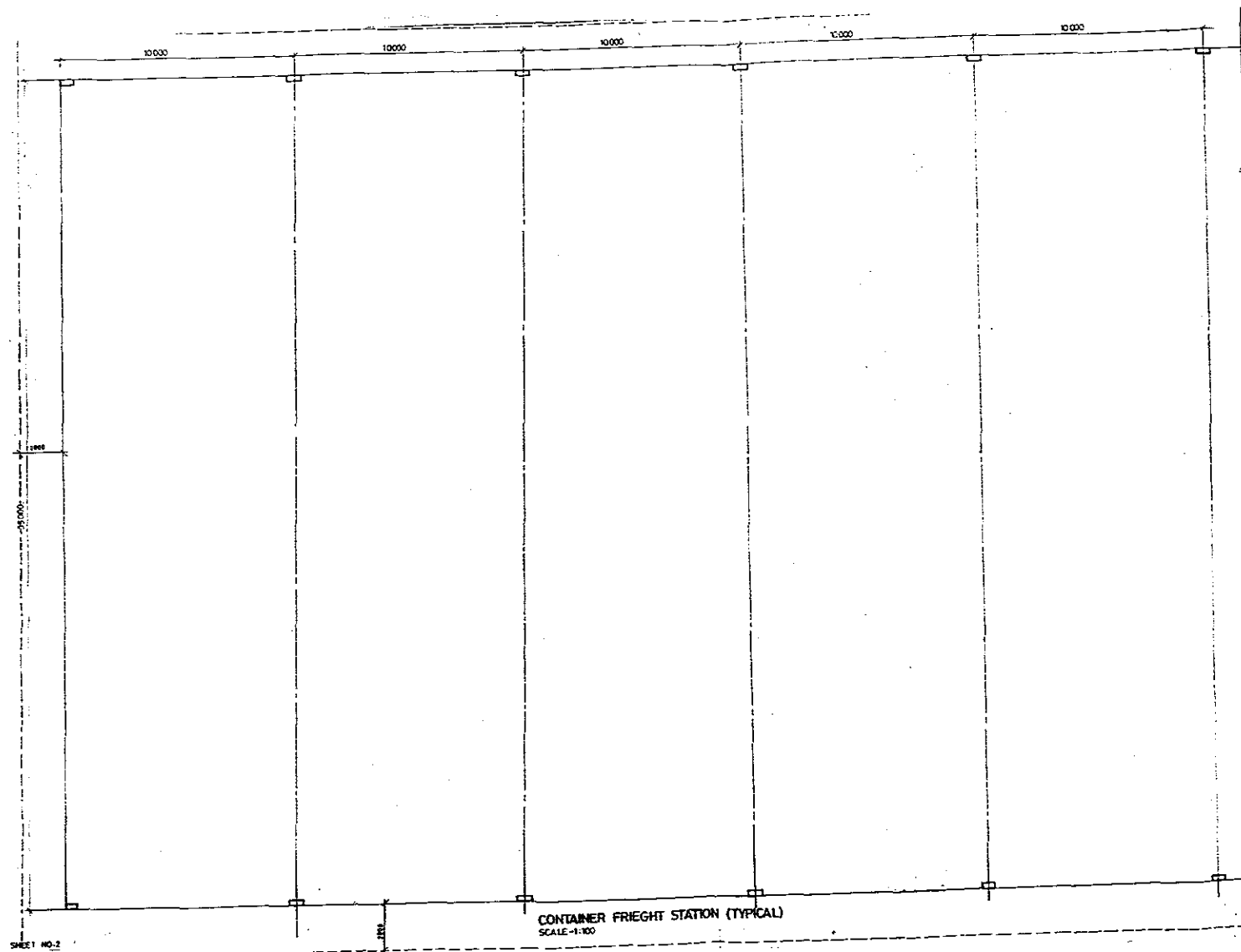


PURLINS DETAIL
SCALE - 1: 20



COLUMNS DETAILS
SCALE - 1: 20

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GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Container Freight Station			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 4-07 (Sheet 3 of 3)	0

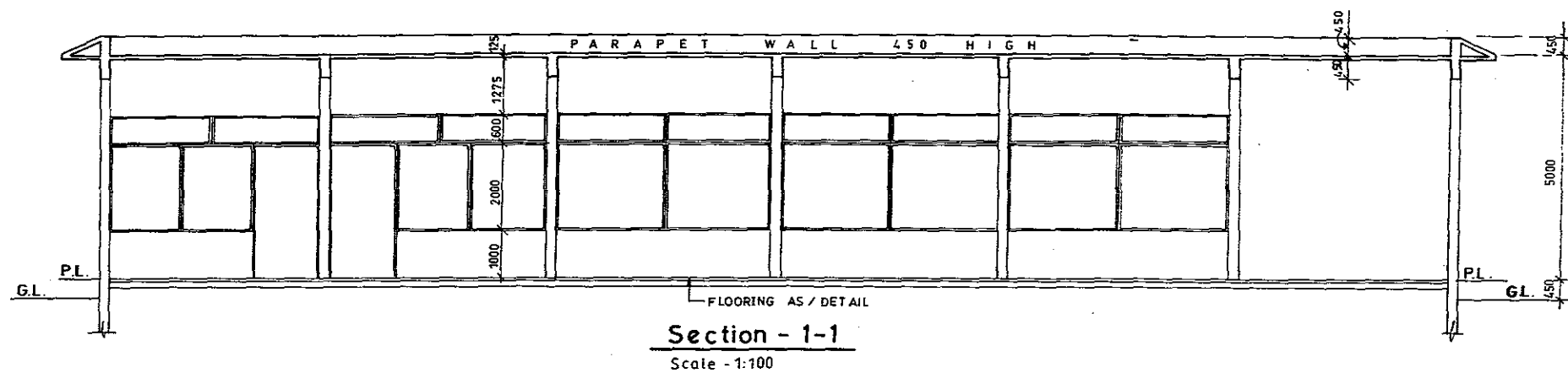


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Detailed Project Report for
Development of Port Facilities at Positra

Container Freight Station

Scale,	Date	Dwg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 4-07 (Sheet 2 of 3)	0



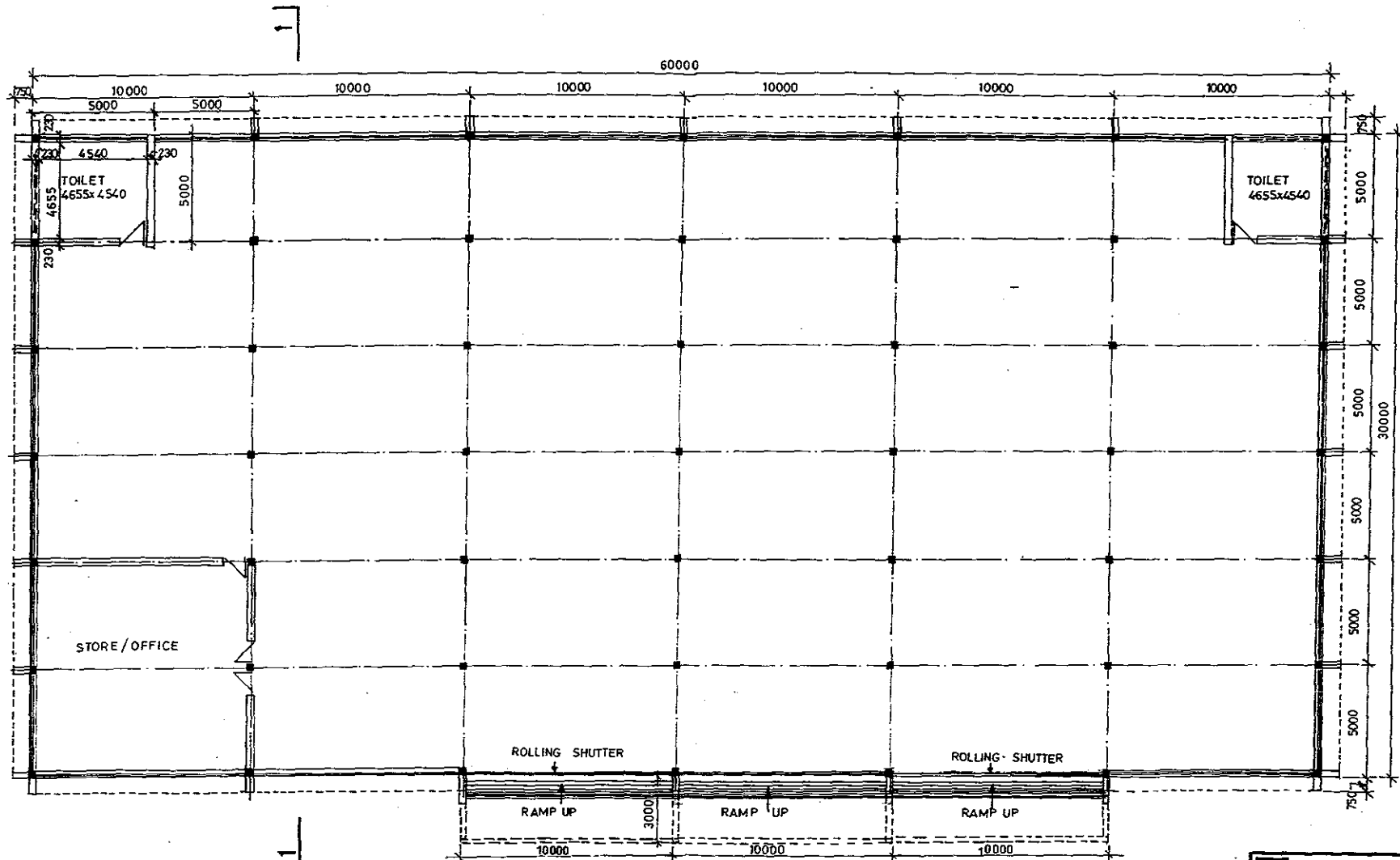
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**Detailed Project Report for
Development of Port Facilities at Positra**

Maintenance & Repair Shop

Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 4-06 (Sheet 2 of 2)	0

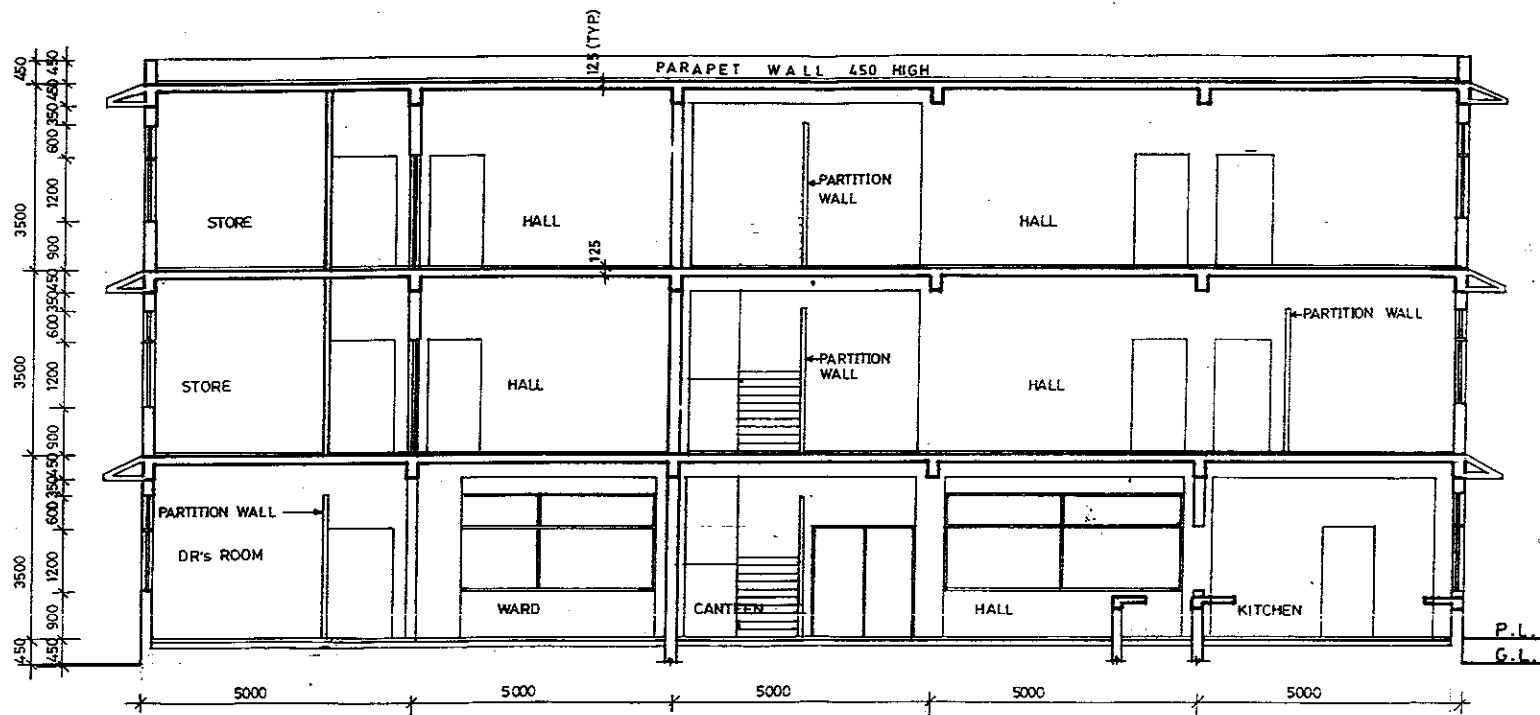


Maintenance And Repair Shop

AREA - 30.0 x 60.0m
SCALE - 1:200

Container Terminal - 1

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Detailed Project Report for Development of Port Facilities at Positra			
Maintenance & Repair Shop			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 4-06	0

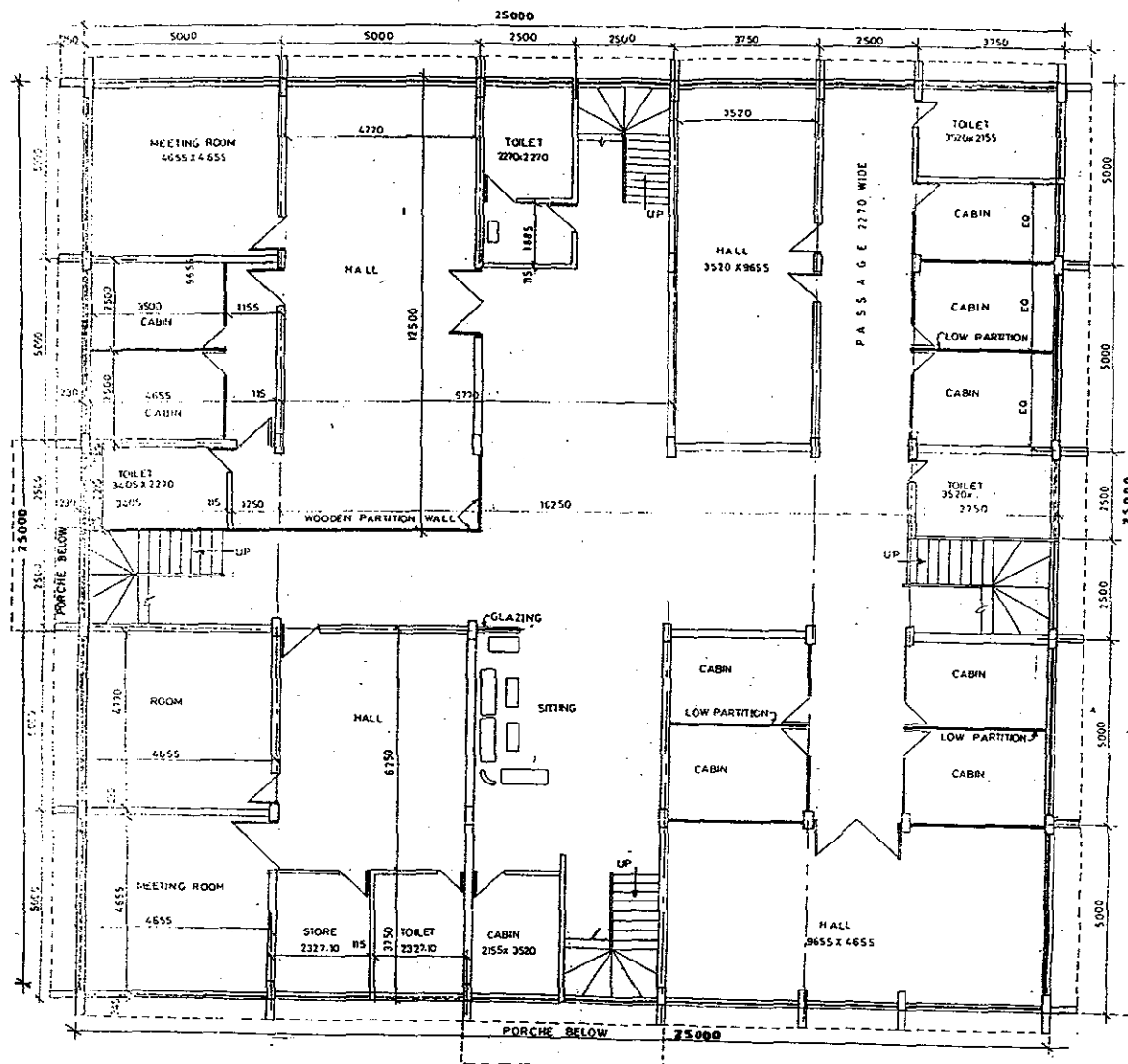


Section. 2-2

SCALE - 1:100

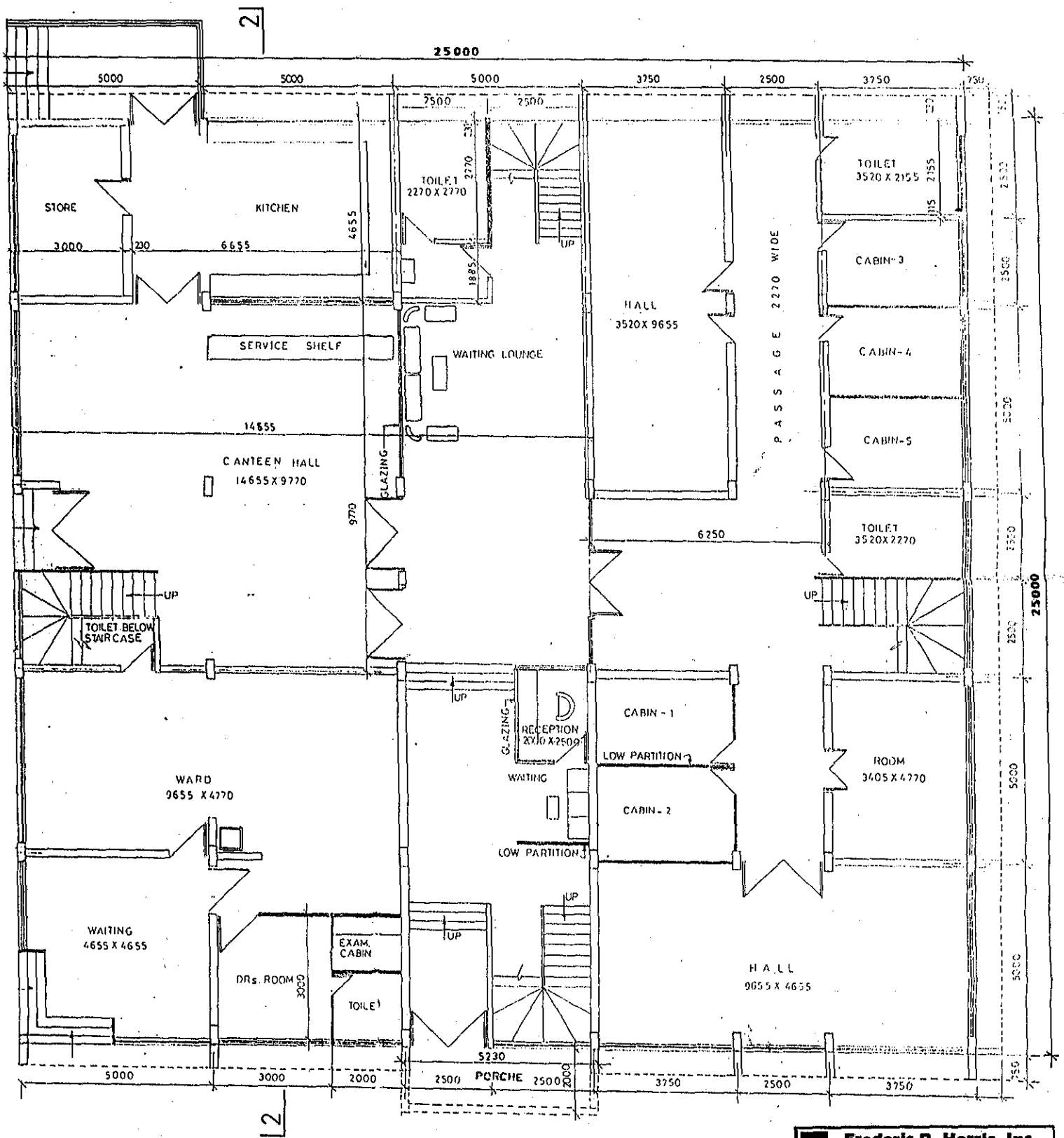
Container Terminal-2

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Detailed Project Report for Development of Port Facilities at Positra			
Terminal Office			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 4-04 (Sheet 3 of 3)	0



1st & 2nd FLOOR PLAN

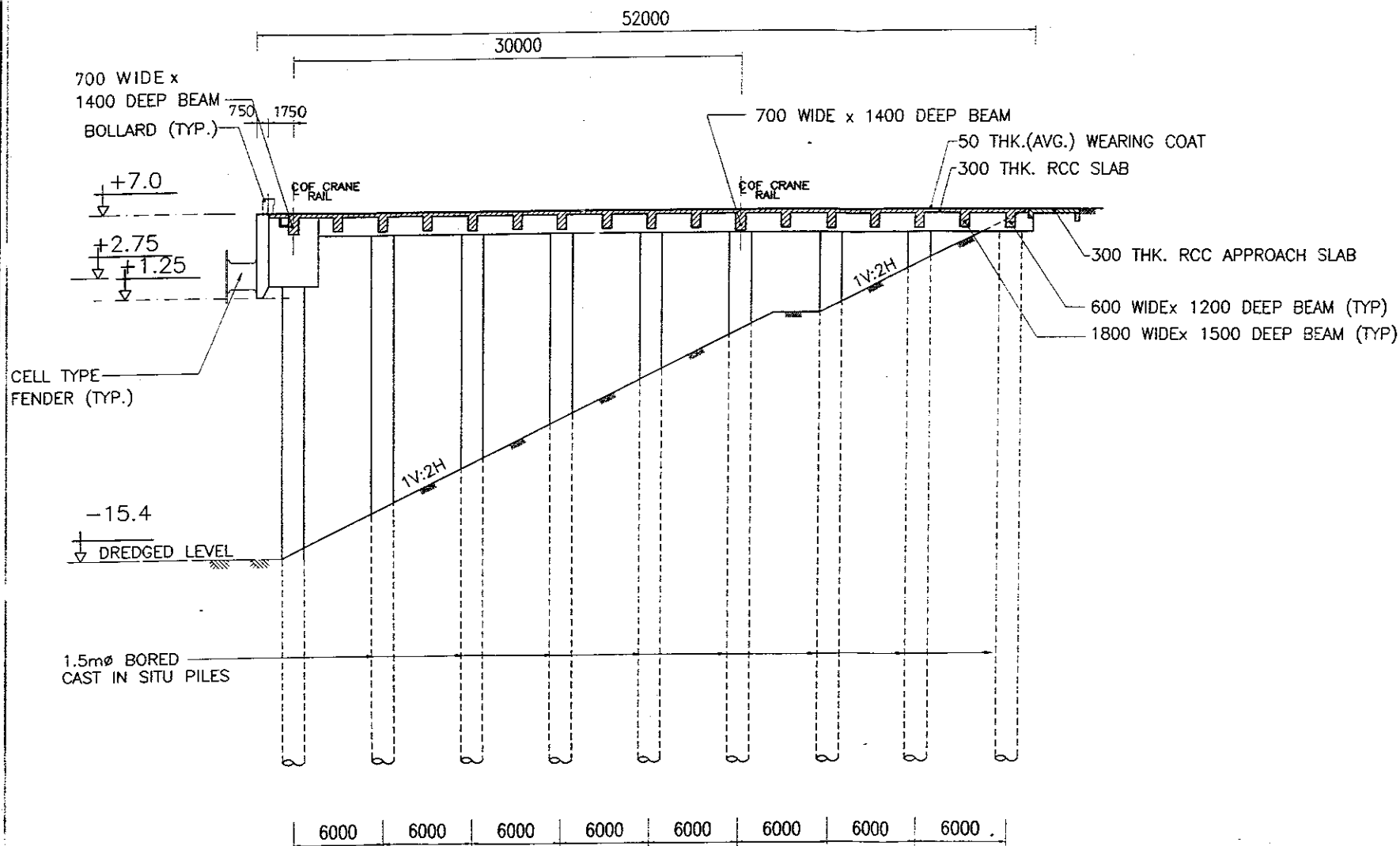
AREA - 25.0m x 25.0m
SCALE - 1:100



GROUND FLOOR PLAN

AREA - 25.0m x 25.0m
SCALE 1:100

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Detailed Project Report for Development of Port Facilities at Positra			
Terminal Office			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC4-04 (Sheet 1 of 3)	0



SECTION A-A

NOTES:

- o ALL LEVELS ARE IN METRE AND WITH RESPECT TO CHART DATUM
- o ALL DIMENSIONS ARE IN mm.

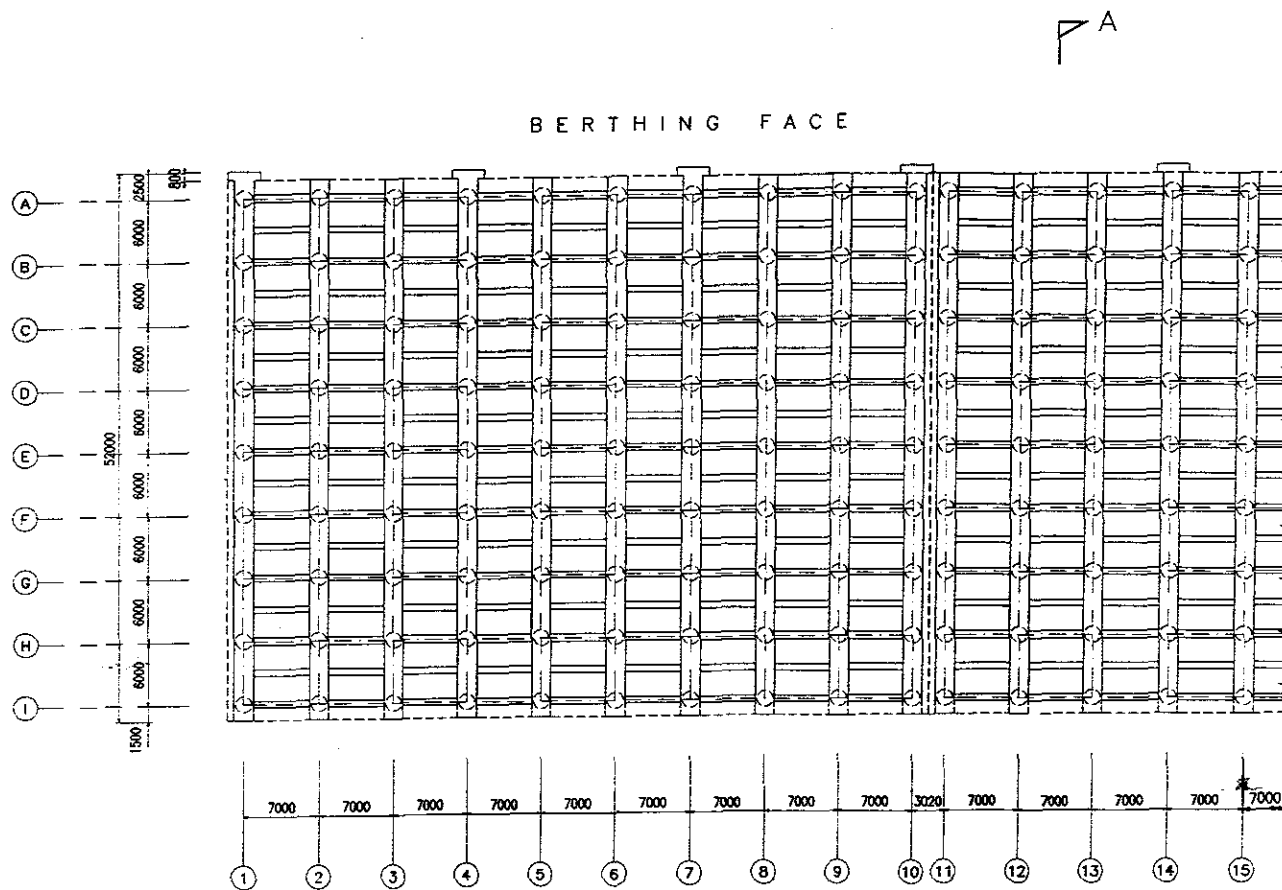
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HARRIS Engineers, Planners, Economists & Consultants

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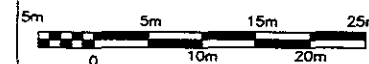
DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT POSITR

STRUCTURAL ARRANGEMENT OF
CONTAINER BERTHS

SCALE	DATE	DRG. No.	REV
1:300	DEC-97	GMB-DPR-SEC4-03 (REV 3 & 3)	0

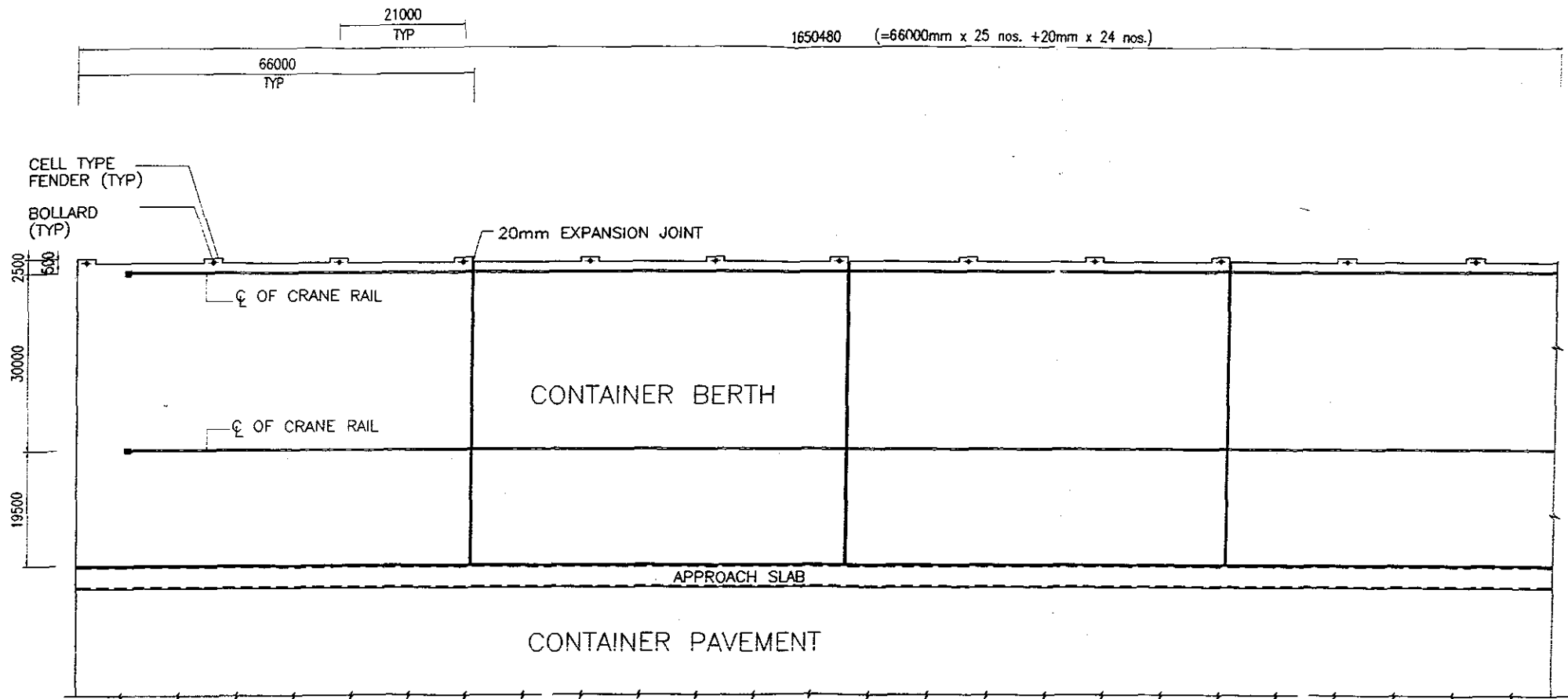


NOTE:
o ALL DIMENSIONS ARE IN mm



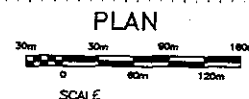
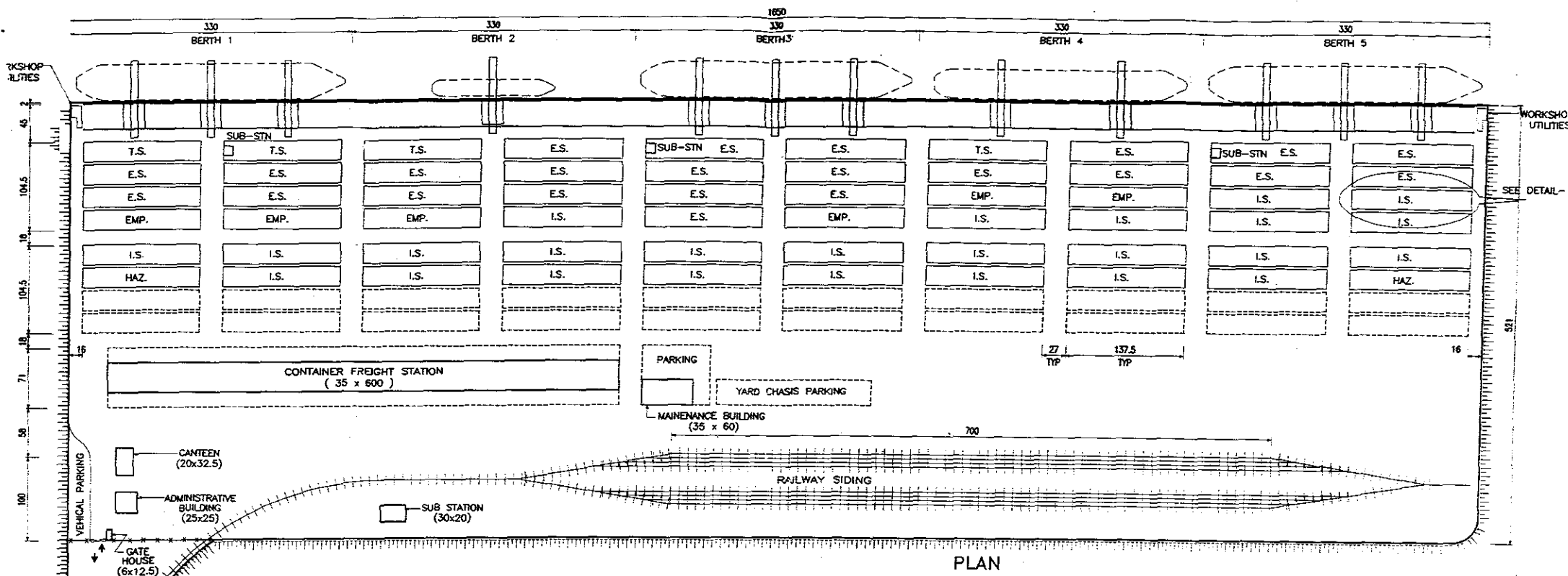
SCALE

FREDERIC R. HARRIS, INC Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITRA			
STRUCTURAL ARRANGEMENT OF CONTAINER BERTHS			
SCALE	DATE	DRG. No.	REV.
-	DEC. 87	GMB-DP-SC-04-03	0



LAYOUT PLAN OF CONTAINER BERTH

 FREDERIC R. HARRIS, INC. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITRA			
STRUCTURAL ARRANGEMENT OF CONTAINER BERTHS			
SCALE	DATE	DRG. No.	REV
-	DEC-97	CMB-DPB-SEC-03 (4 of 7)	0

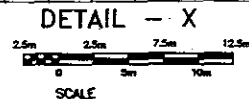
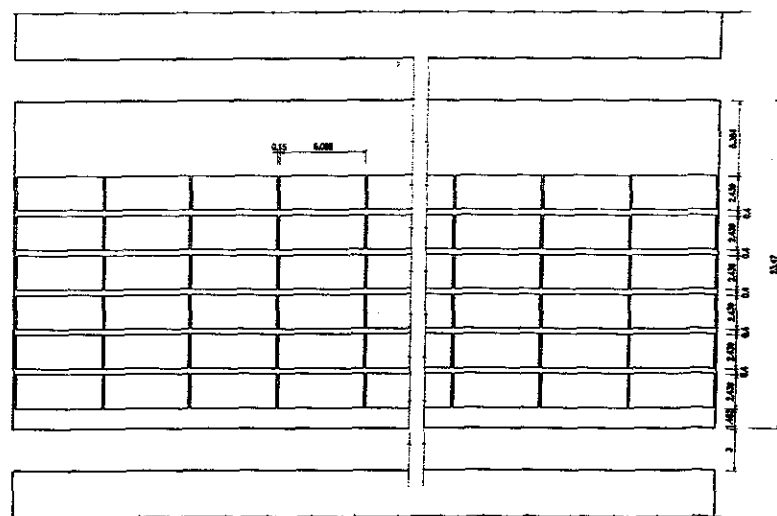


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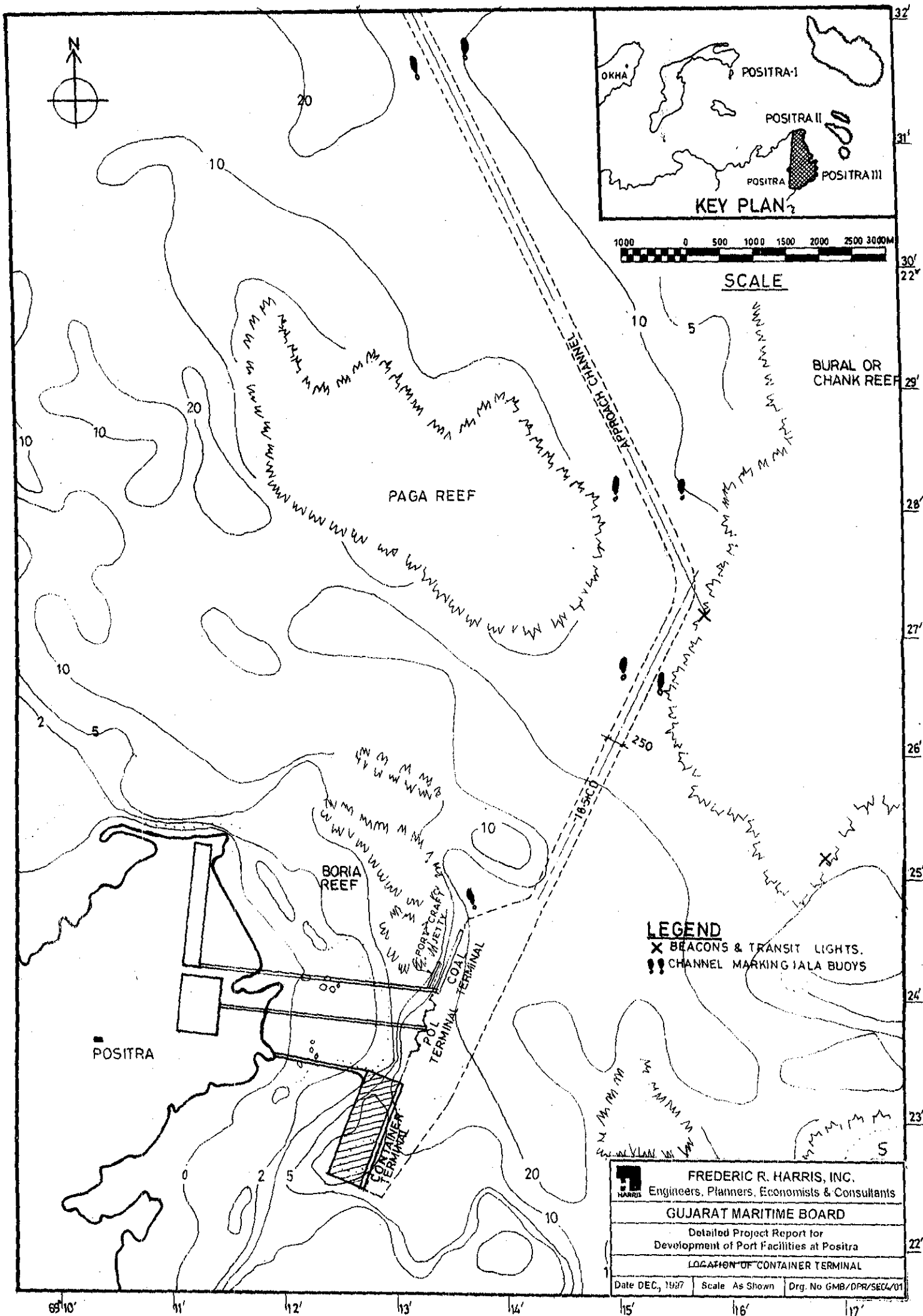
- E.S. EXPORT STACK
- T.S. TRANSSHIPMENT STACK
- EMP. EMPTIES
- I.S. IMPORT STACK
- HAZ. HAZARDOUS CARGO
- [] FUTURE STACK

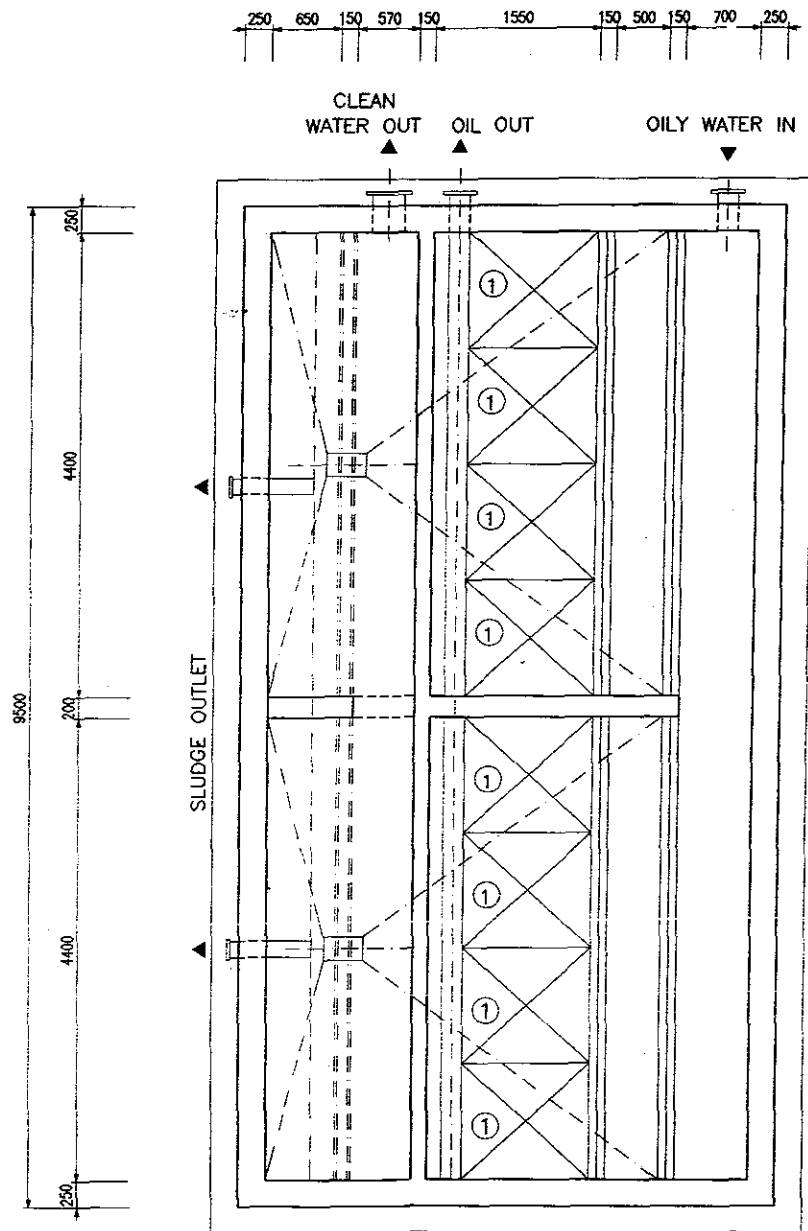
NOTE :

- ALL DIMENSIONS ARE IN METRES

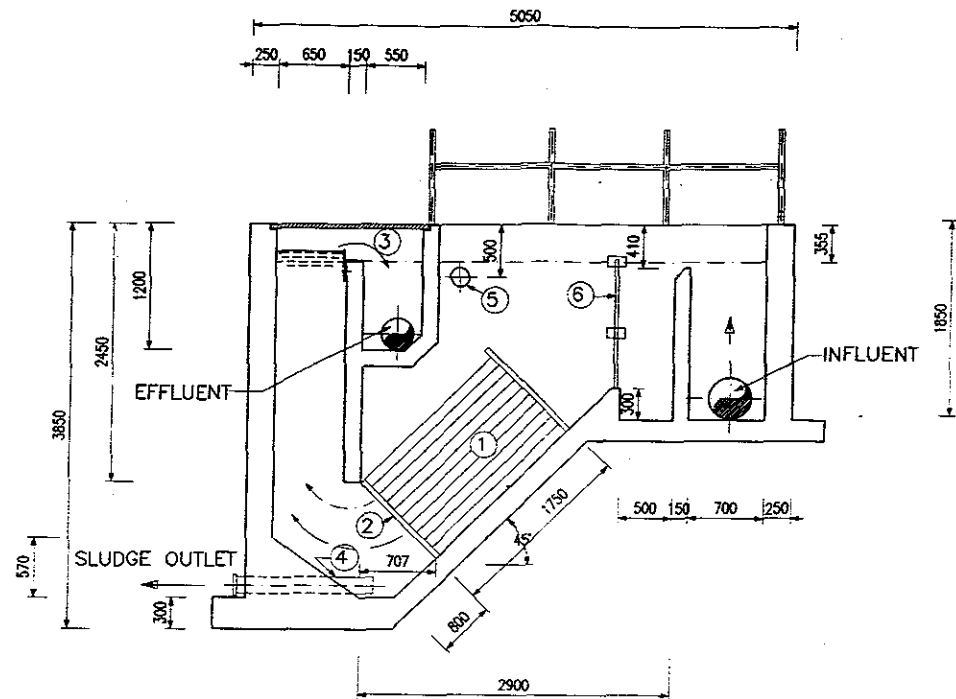


FREDERIC R. HARRIS, INC Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITRA			
LAYOUT PLAN OF CONTAINER TERMINAL			
SCALE	DATE	DRG. No.	REV
1:1000	DEC-97	GMB-DPR-SEC4-02	0





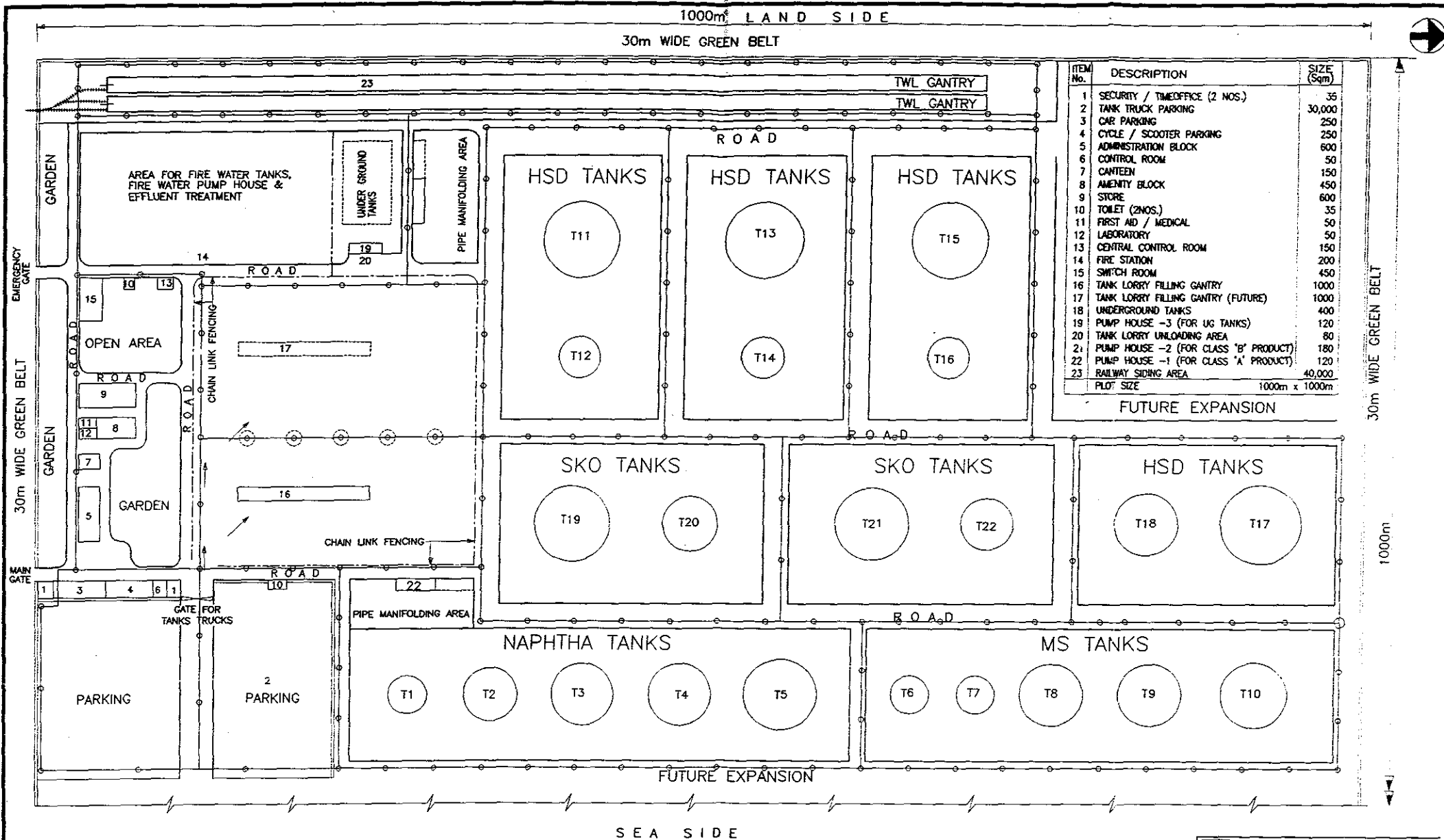
PLAN



TYPICAL CROSS SECTION DETAIL

S.No.	DESCRIPTION
1	PLATE PACK
2	PLATE PACK SUPPORT
3	OUTLET WEIR
4	SLUDGE OUTLET
5	OIL SKIMMER
6	FLOW BAFFLE

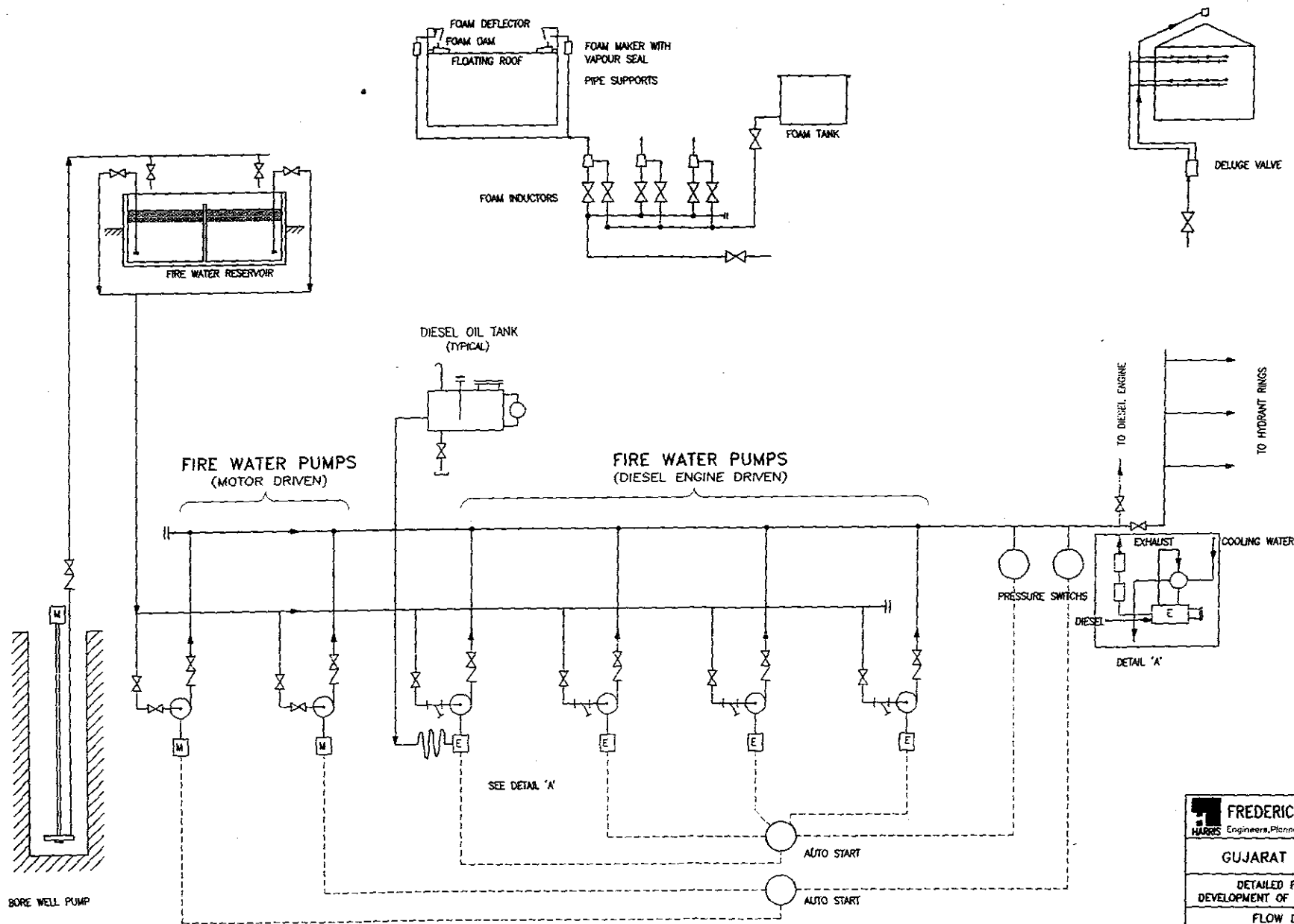
 FREDERIC R. HARRIS, INC Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITRA			
DETAILS OF OIL WATER SEPARATOR			
SCALE	DATE	DRG. No.	REV
1:50	DEC/87	GMB-DPR-SEC3-35	0



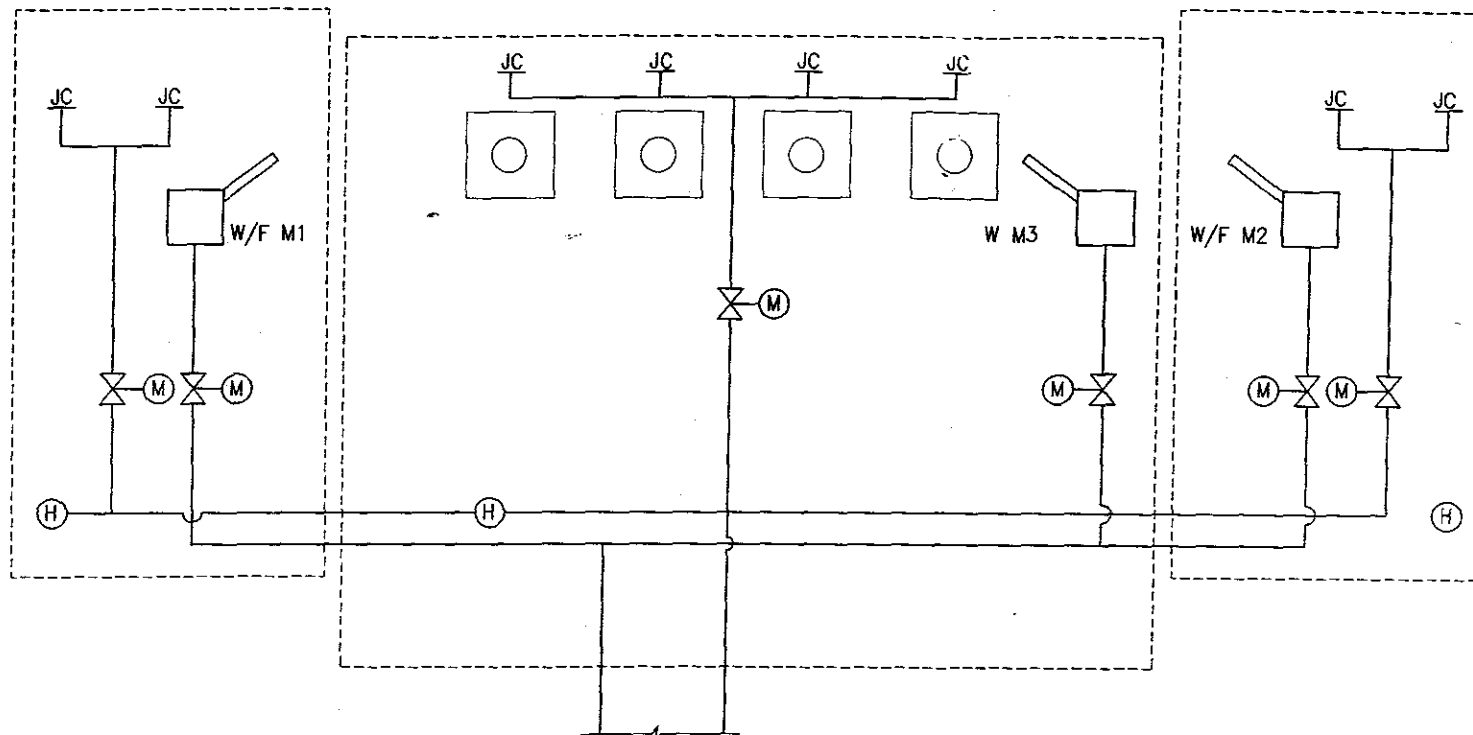
 FREDERICK R. HARRIS, INC Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITRA			
LAYOUT OF HYDRANT LINES AT TANKFAR			
SCALE	DATE	DRG. No.	REV
-	DEC-97	GMB-DPR-SEC-34	0

TYPICAL FOAM SYSTEM

TYPICAL W/ WATER SPRINKLER SYSTEM



FREDERIC R. HARRIS, INC Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITRA			
FLOW DIAGRAM OF FIRE FIGHTING SCHEME IN TANKFARM			
SCALE	DATE	DRG. No.	REV.
—	DEC-87	CMB-DPR-SEC3-33	0



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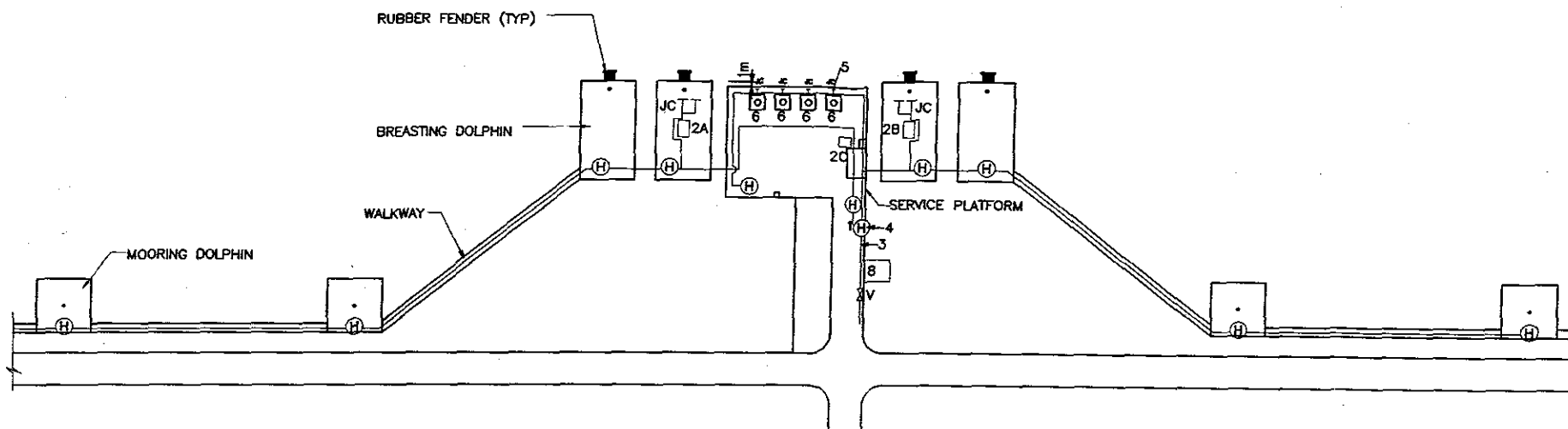
- 1 W/F M1,2 WATER FOAM TOWER MONITORS
- 2 W M3 GROUND WATER MONITOR
- 3 JC JUMBO CURTAIN
- 4 X GATE VALVE
- 5 H HYDRANT
- 6 X-M MOTORISED GATE VALVE

FREDERIC R. HARRIS, INC
HARRIS Engineers, Planners, Economists & Consultants

GUJARAT MARITIME BOARD

DETAILED PROJECT REPORT FOR
 DEVELOPMENT OF PORT FACILITIES AT POSITRA
 FLOW DIAGRAM OF FIRE FIGHTING SCHEM
 AT POL BERTHS

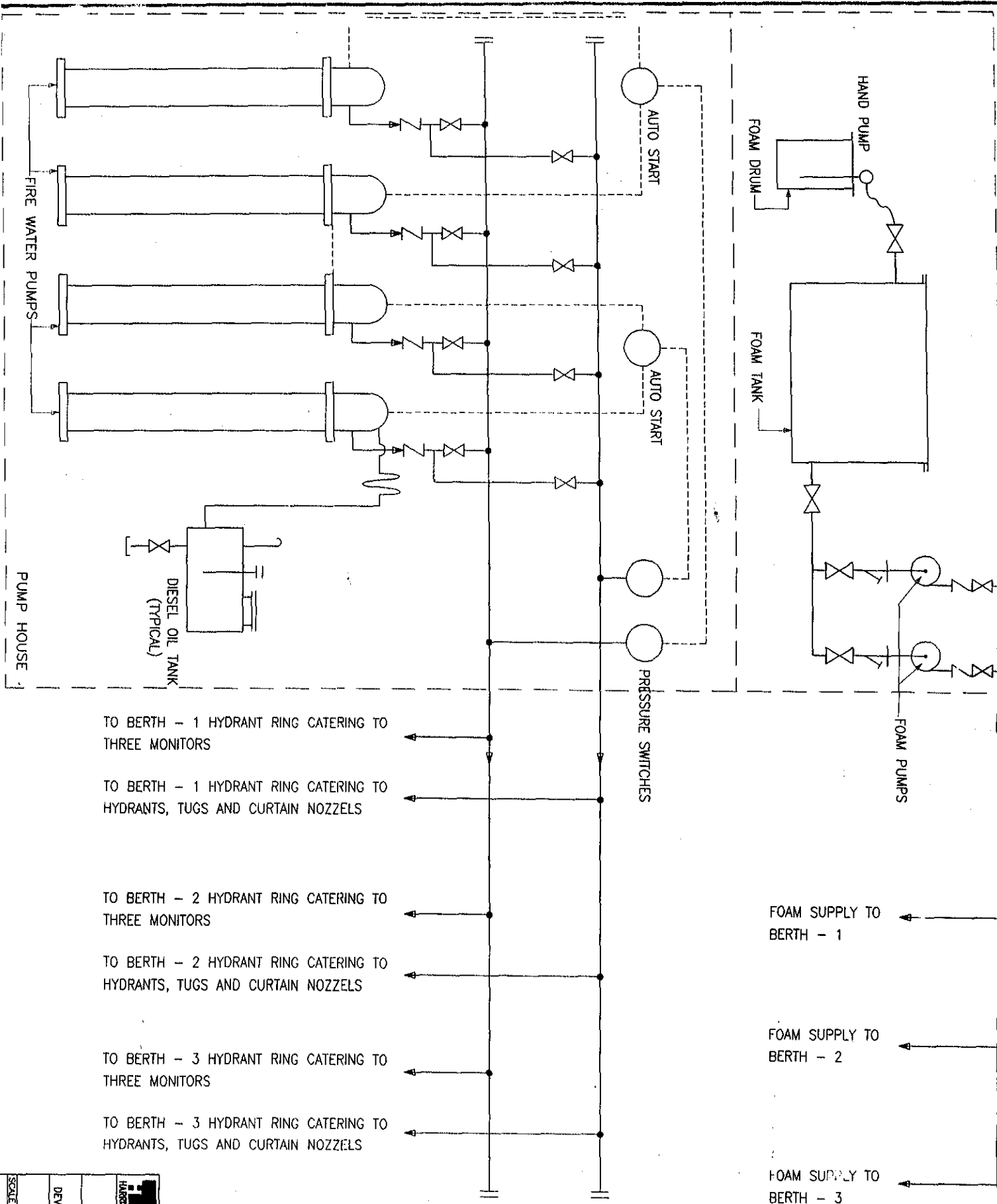
SCALE	DATE	DRG. No.	REV
—	DEC-97	GMB-DPR-SEC3-32 (SHEET 3 OF 3)	0

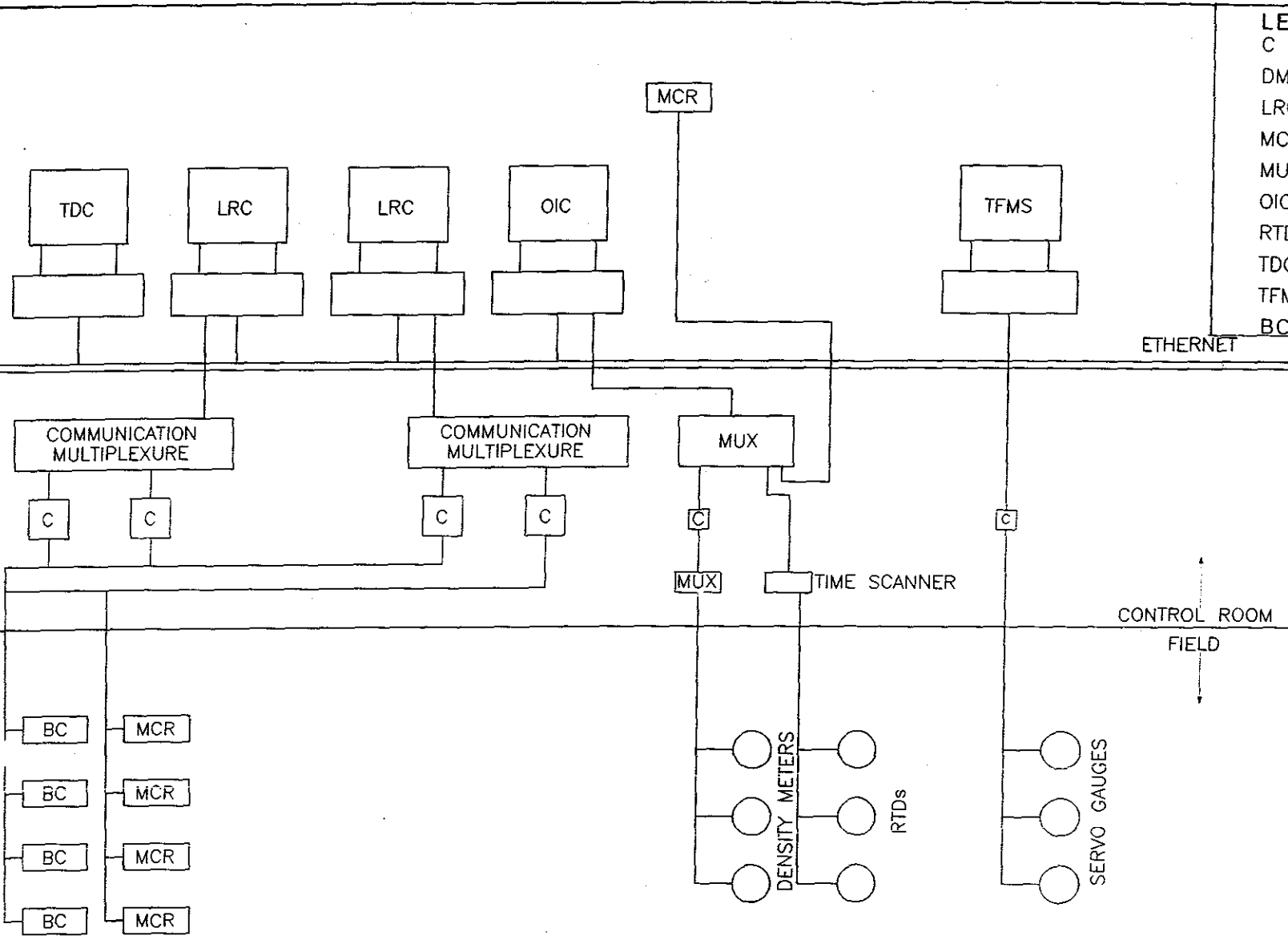


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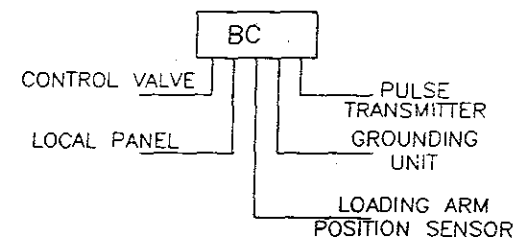
- 1 TOWER/GROUND MONITOR WATER LINE
- 2A, 2B MONITOR TOWER ON BERTHING DOLPHINS
- LC GROUND MONITORS ON LOADING ARM PLATFORM
- 3 HYDRANT LINE
- 4 HYDRANT (H)
- 5 JUMBO CURTAIN (JC) 6 nos.
- 6 MARINE LOADING ARMS (4 nos.)
- 7 VALVE (V)
- 8 CONTROL TOWER

FREDERIC R. HARRIS, INC HARRIS Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITRA			
FLOW DIAGRAM OF FIRE FIGHTING SCHEME AT POL BERTHS			
SCALE	DATE	DRG. No.	REV
	OCT. 87	GMB-DPR-SEC-32 (Sheet 2 of 2)	0

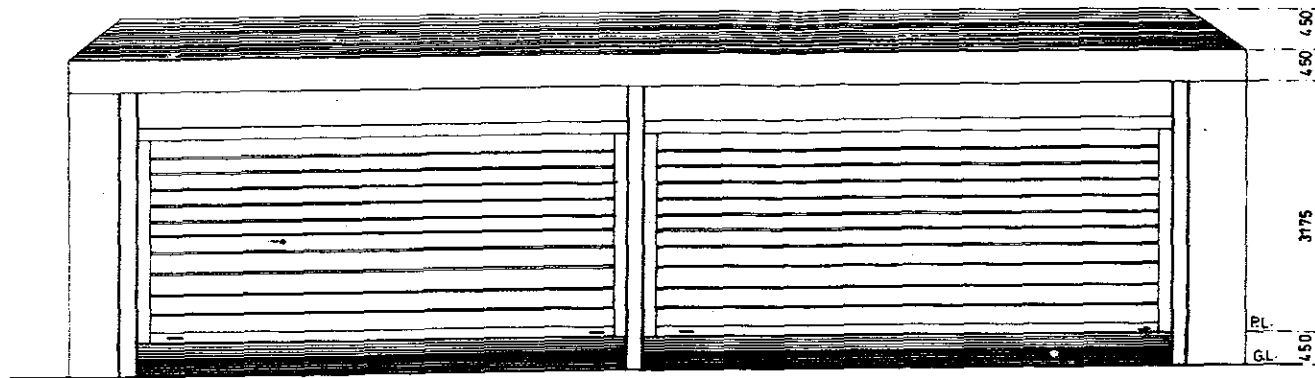




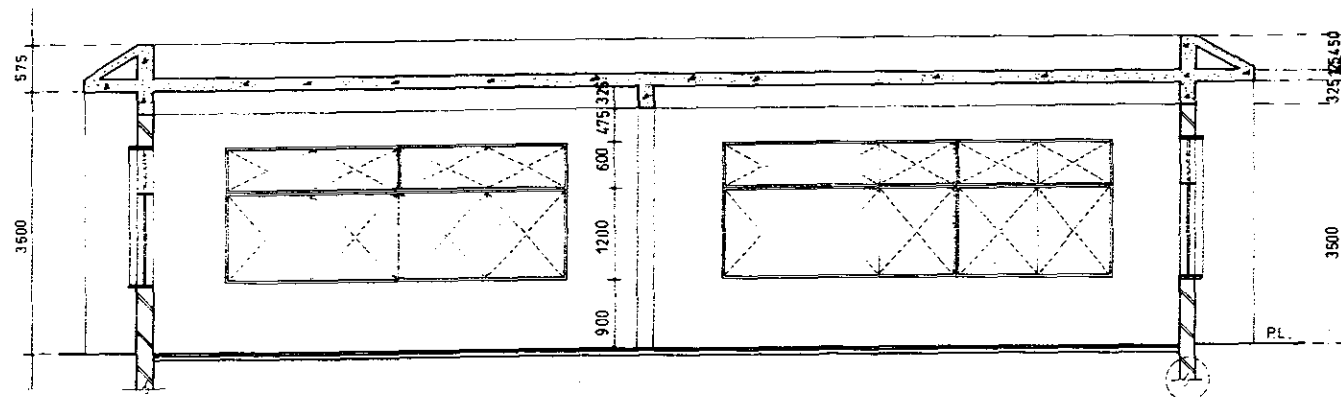
- LEGEND:**
- C CONVERTOR
 - DM DENSITY METER
 - LRC LOADING RACK COMPUTER
 - MCR MAGNETIC CARD READER
 - MUX COMMUNICATION MULTIPLEXER
 - OIC OPERATOR INTERFACE CONSOLE
 - RTD RESISTANCE TEMPERATURE DETECTOR
 - TDC TERMINAL DOCUMENTATION COMPUTER
 - TFMS TANKFARM MANAGEMENT SYSTEM
 - BC BATCH CONTROLLER



BATCH CONTROLLER CONFIGURATION

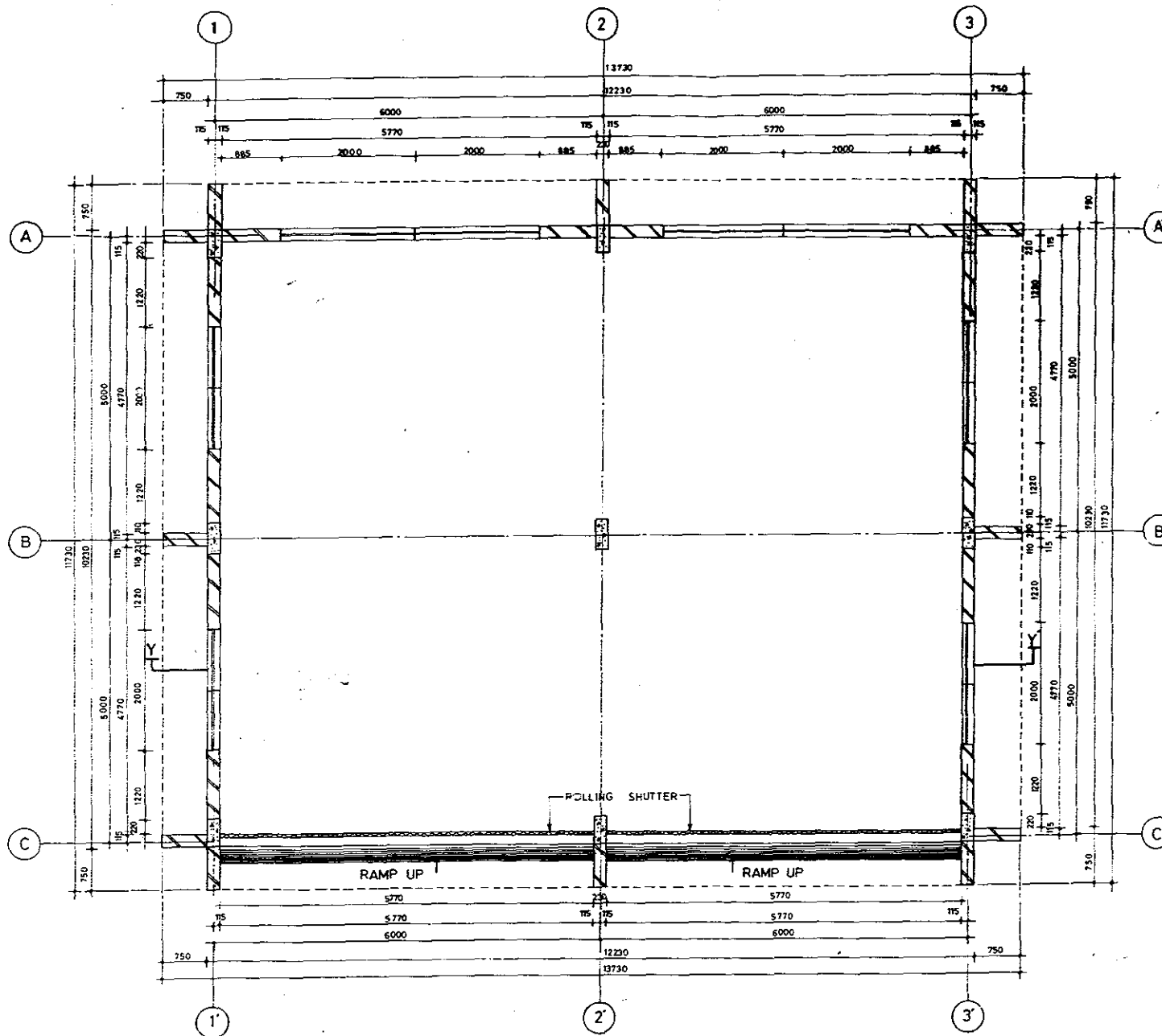


Front elevation



Section at YY'

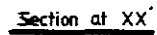
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Front Elevation & Section of Pump House			
Scale	Date	Org. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-30	0

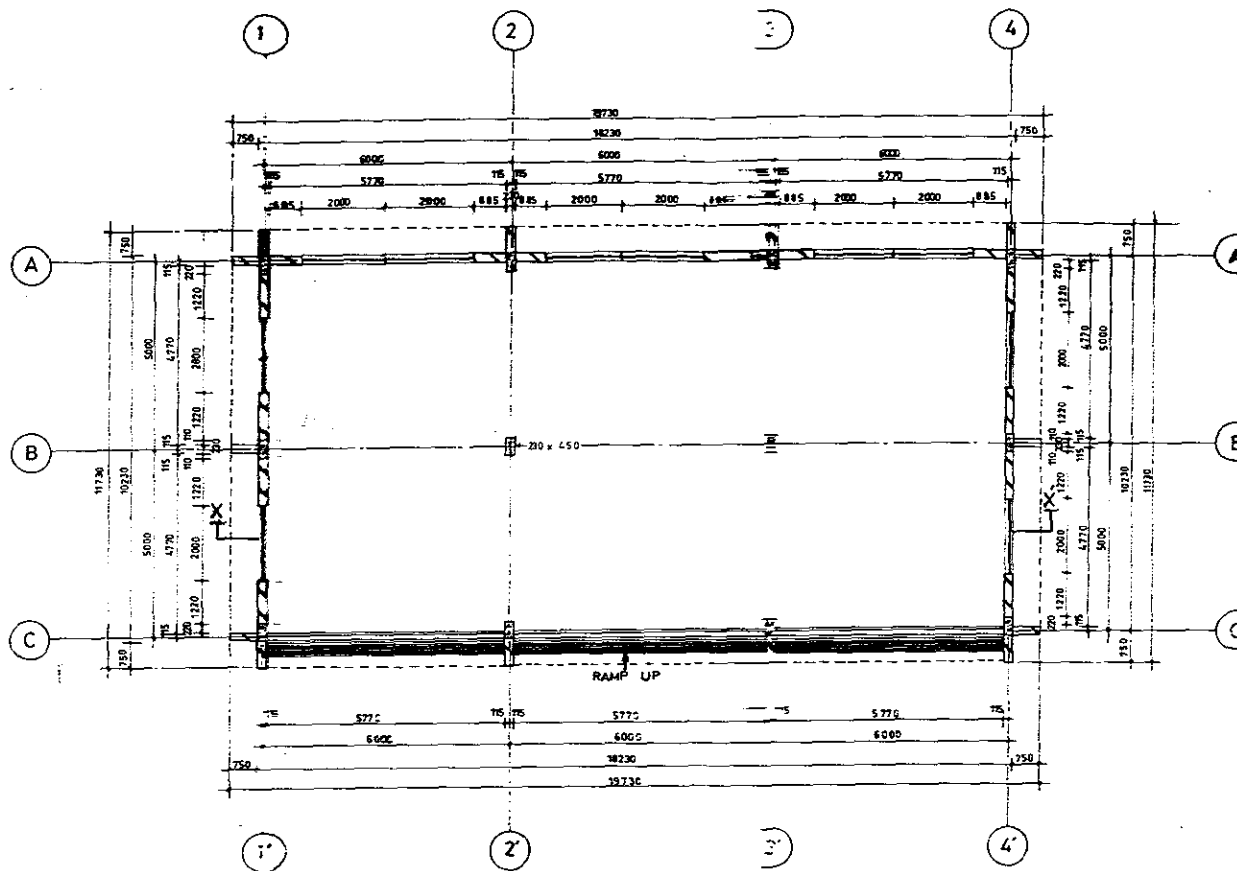


PUMP HOUSE

AREA - 10000 x 12000

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Pump House			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-29	0

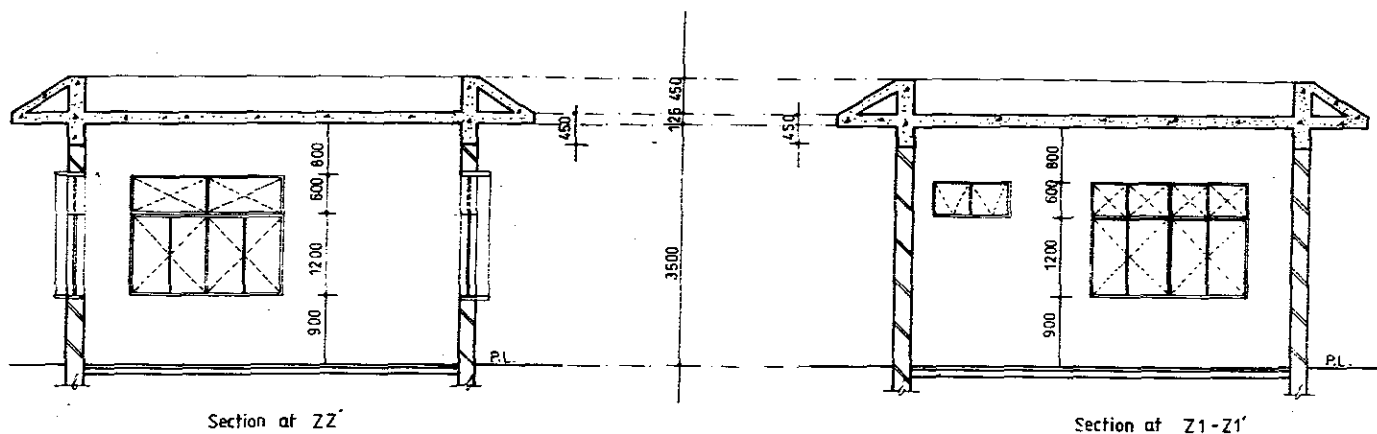
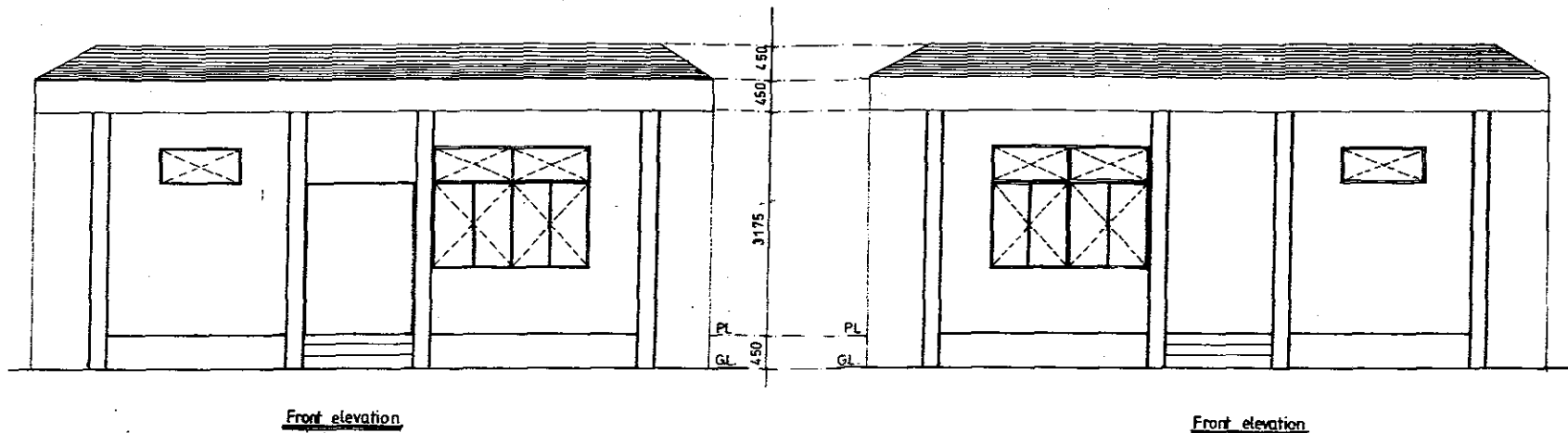




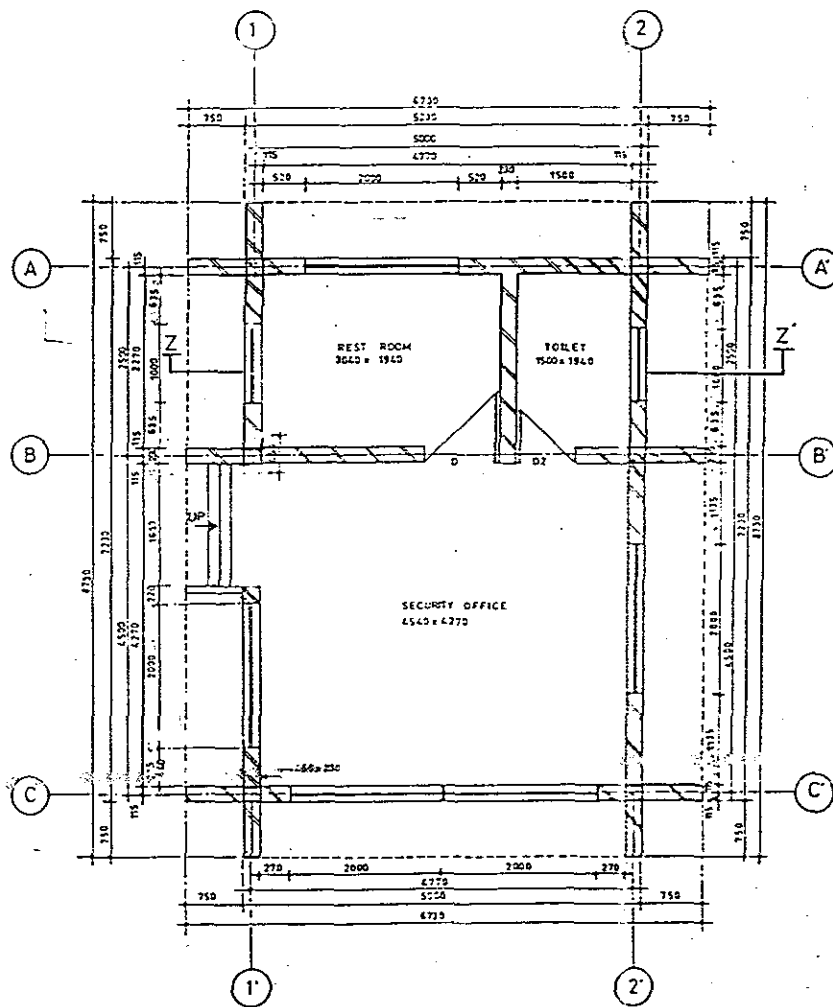
PUMP HOUSE

AREA - 10000 x 16000

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Pump House			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-28 (Sheet 1 of 2)	0

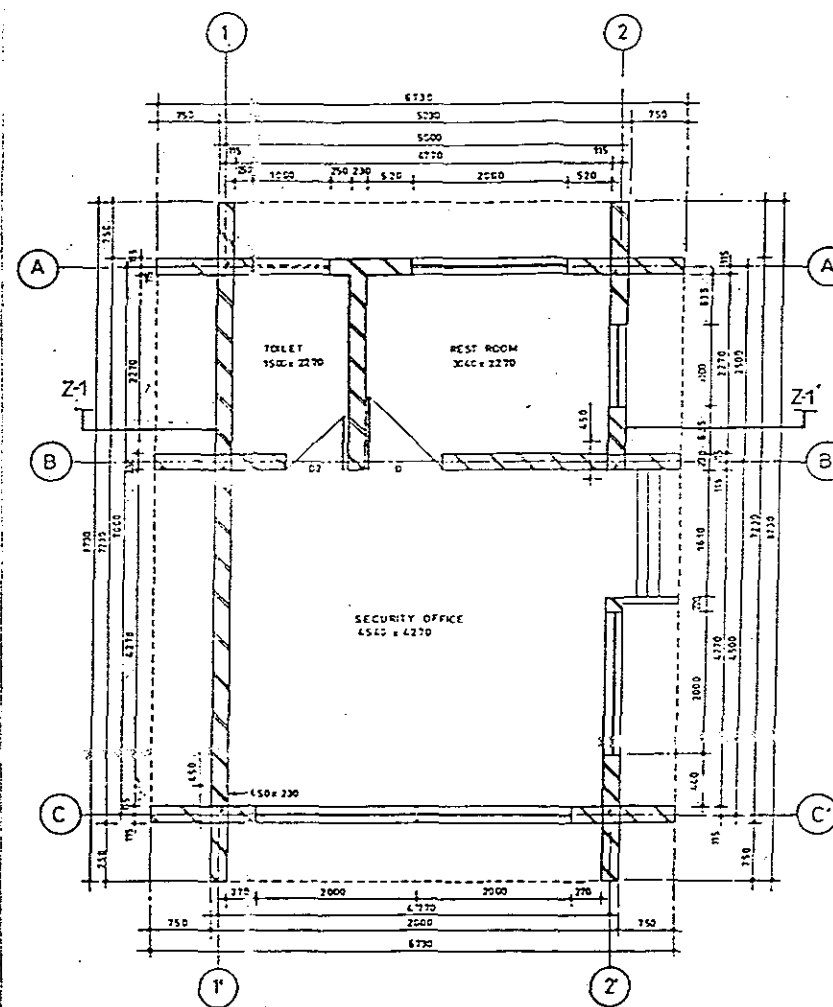


Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Gate Houses			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-27 (Sheet 2 of 2)	0



GATE HOUSE NEAR SEPTIC TANK

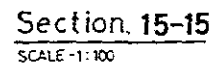
AREA - 7000 ± 500



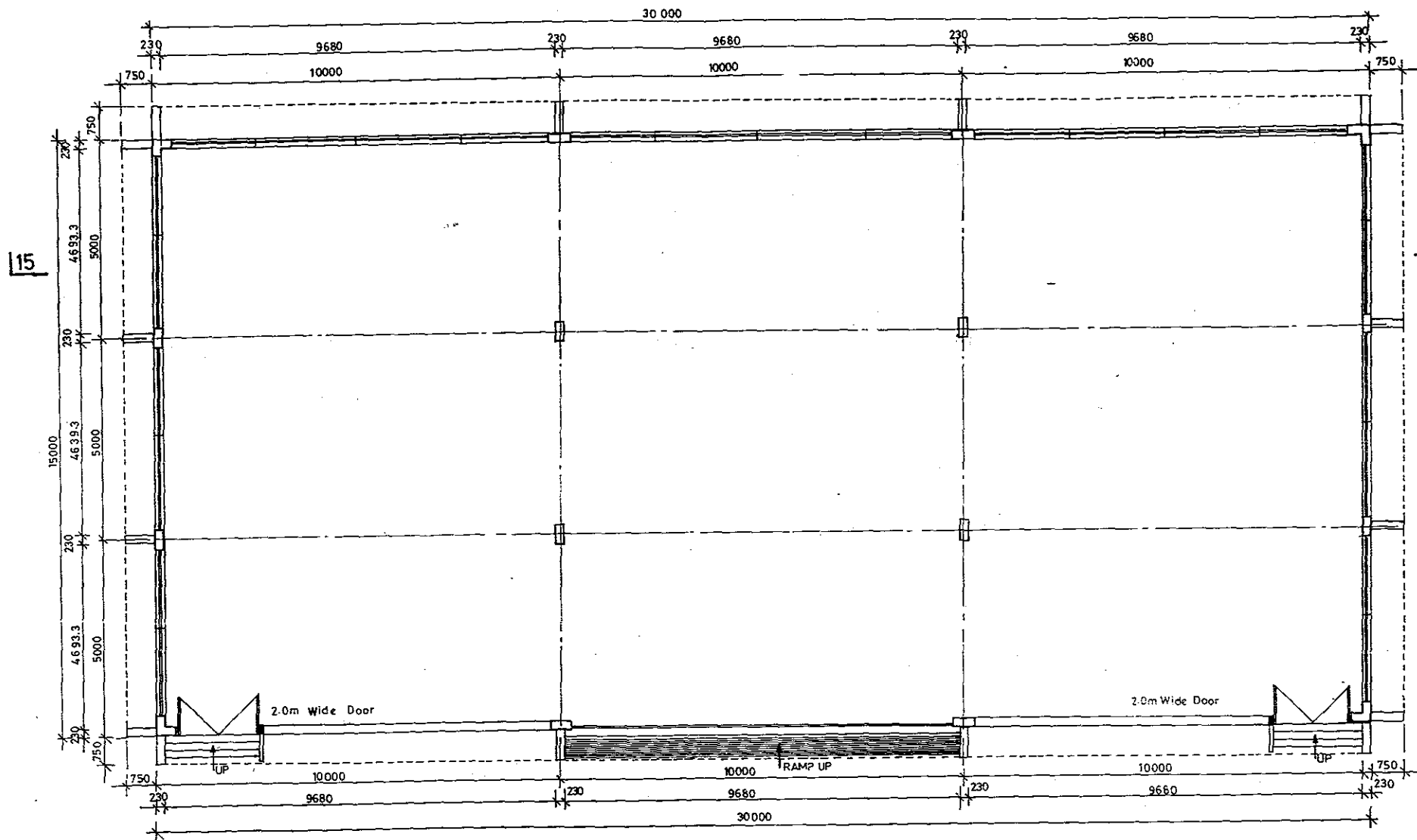
GATE HOUSE NEAR PARKING

AREA - 7000 ± 500

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultant			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positr			
Gate Houses			
Scale	Date	Dwg. No.	Re
As Shown	Dec., 1997	GMB-DPR-SEC 3-27	0

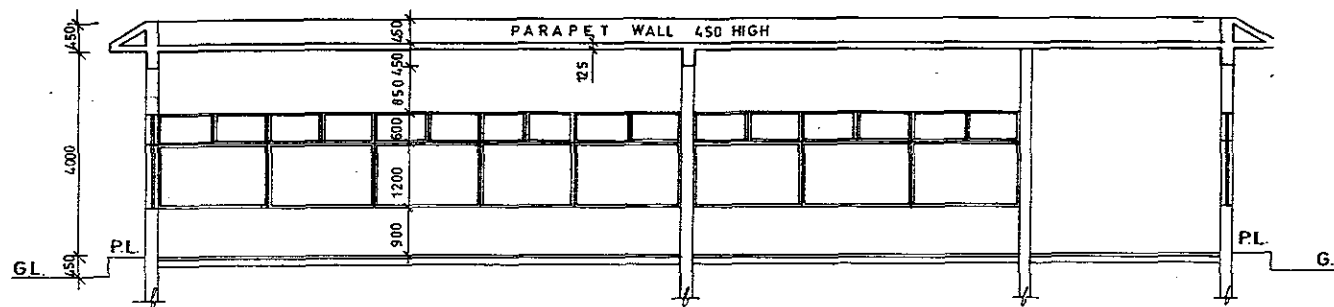


 Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Switch Room			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-26 (Sheet 2 of 2)	0.



Switch Room
 Area - 15.0m x 30.0m
 Scale - 1:100

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Switch Room			
Scale	Date	Org. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-26 (Sheet 1 of 2)	0

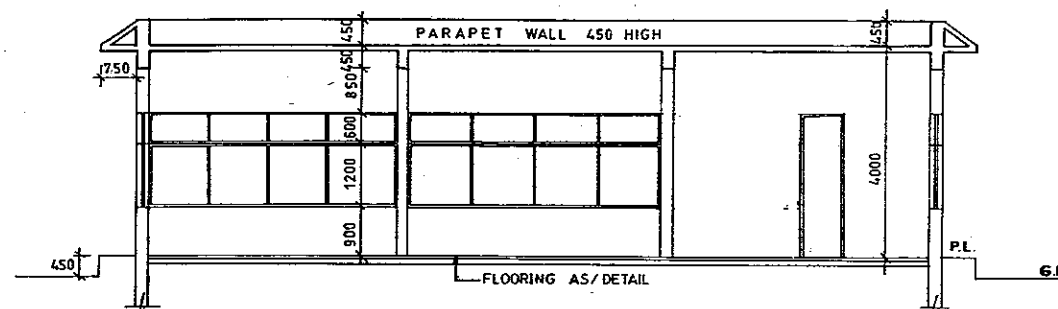


Section - 14-14

Scale - 1:100

POL Terminal-14

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Fire Station			
Scale	Date	Drg. No.	Rev
As Shown	Dec. 1997	GMB-DPR-SEC 3-25 (Sheet 2 of 2)	0

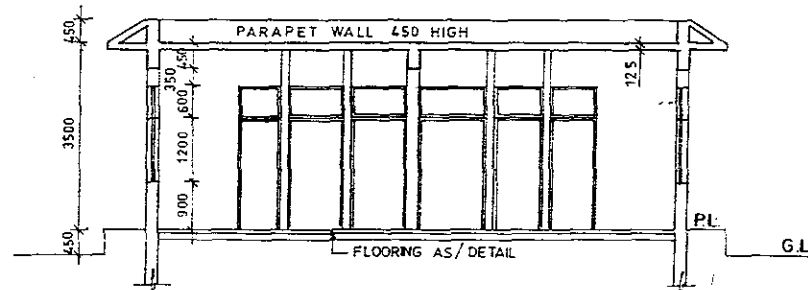


Section -13-13

Scale - 1: 100

POL Terminal - 13

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Central Control Room			
Scale	Date	Dwg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-24 (Sheet 2 of 2)	0

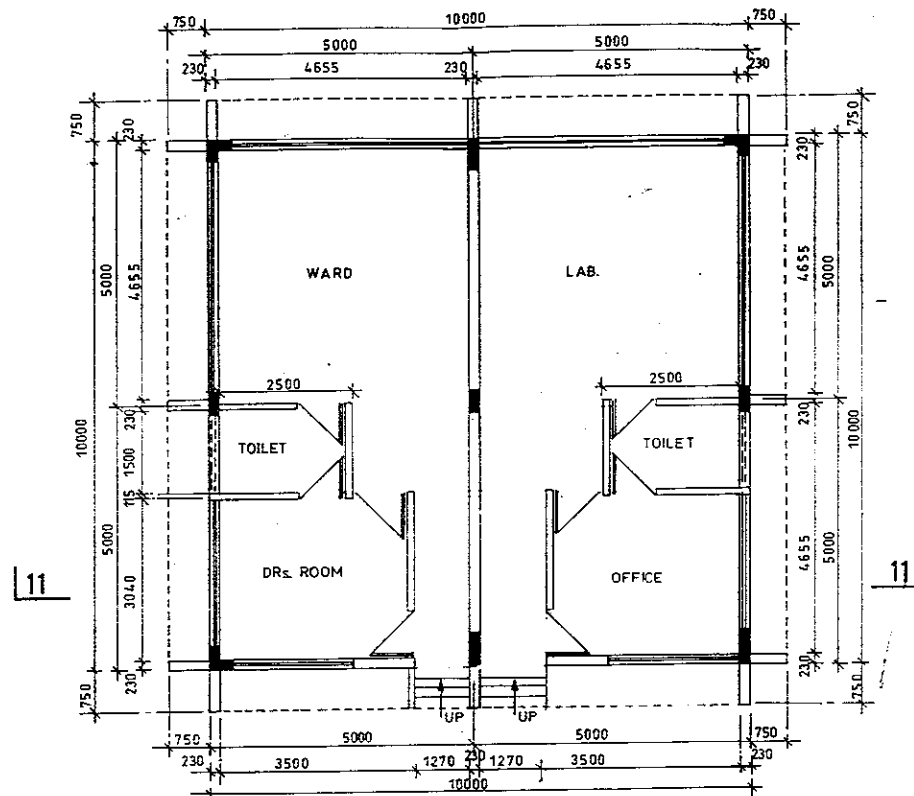


Section 11-11

Scale 1:100

POL Terminal - 11 & 12

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positr:			
First Aid/ Medical and Laboratory			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-23 (Sheet 2 of 2)	0

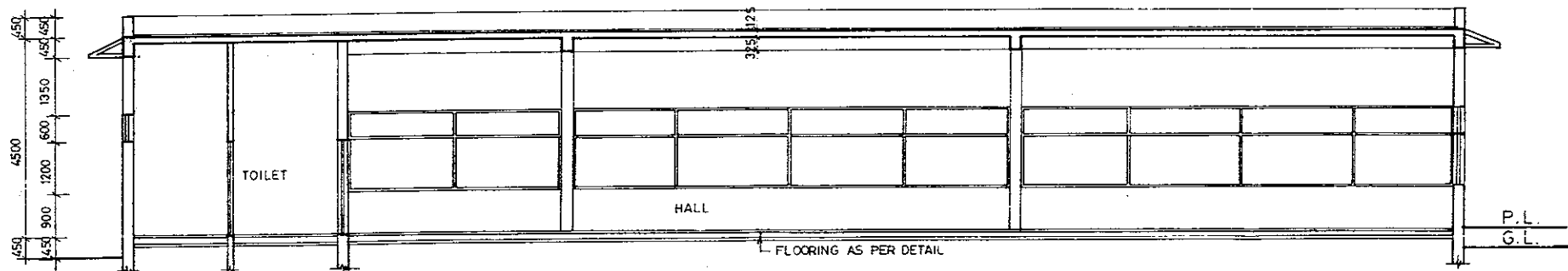


First Aid / Medical & Laboratory

Area of First Aid/Medical - 5.0m x 10.0m

Area of Laboratory - 5.0m x 10.0m

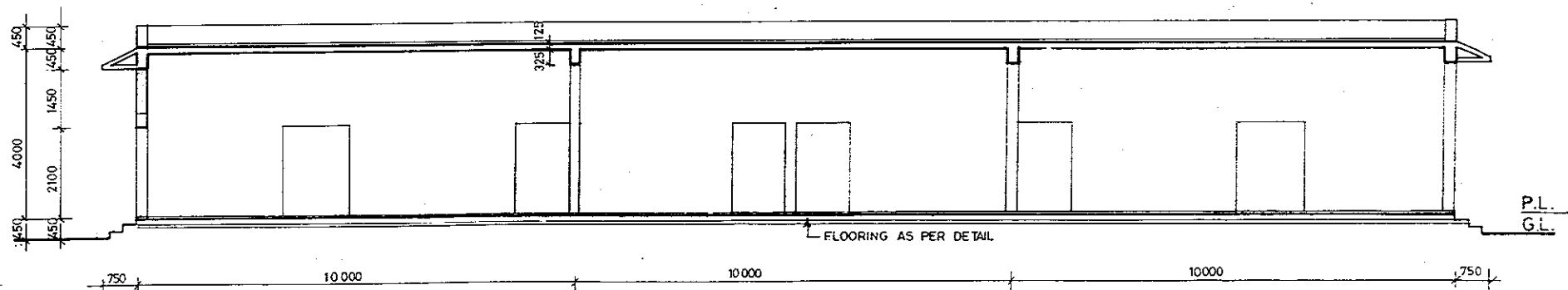
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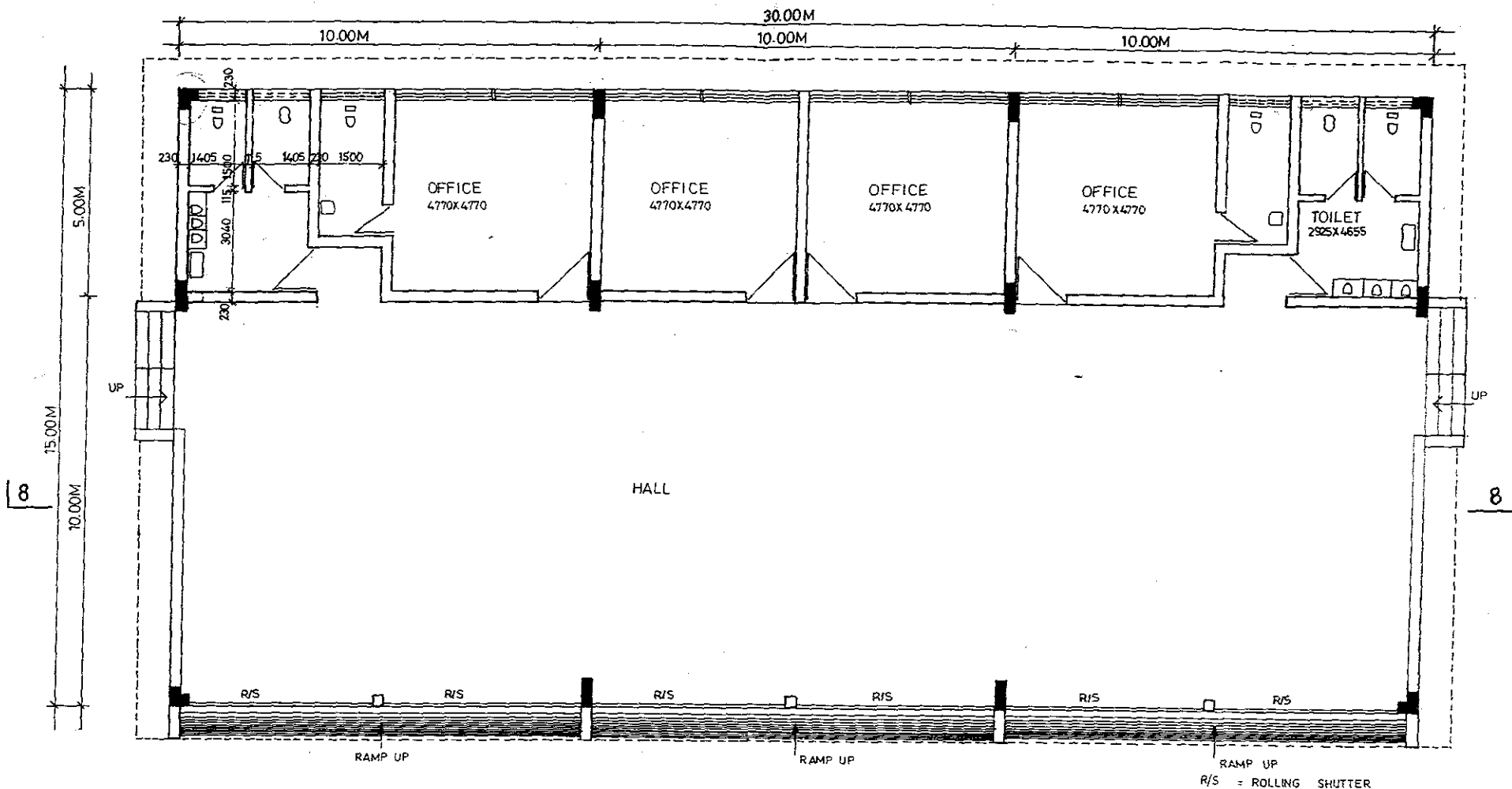
Section. 9-9

SCALE - 1:100

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Store Building			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-22 (Sheet 2 of 2)	0



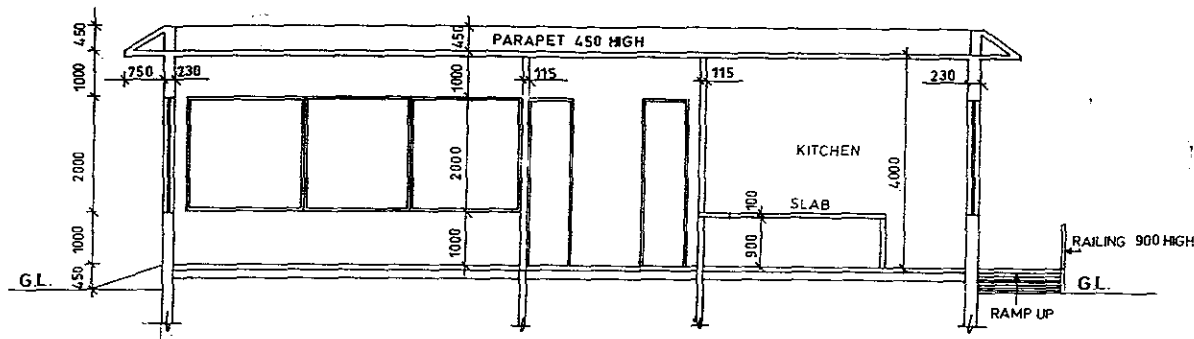
Section-8-8
SCALE - 1:100



Amenity Block

AREA - 30.00 X 10.00M
SCALE - 1:100

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Amenity Block			
Scale	Date	Dwg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-21 (Sheet 1 of 2)	0

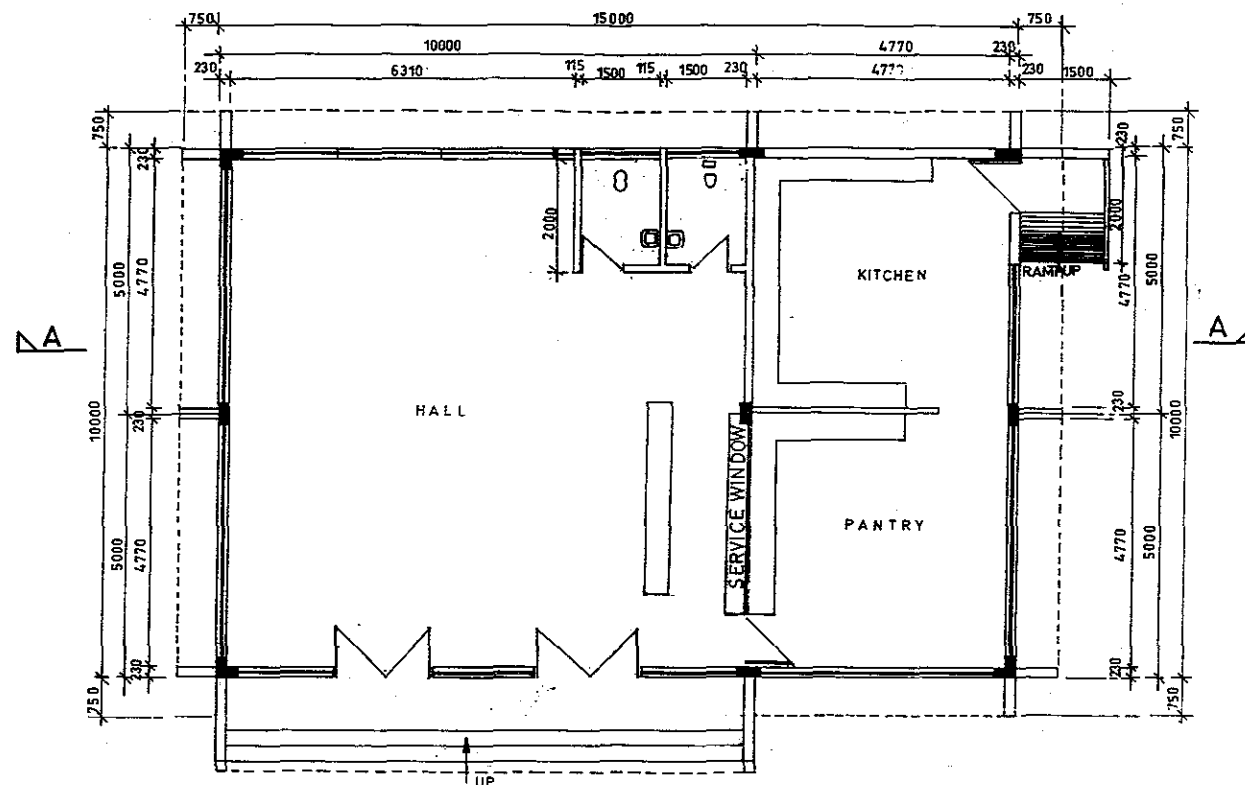


Section A-A

Scale - 1:100

POL Terminal-7

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Canteen Building			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-20 (Sheet 2 of 2)	0



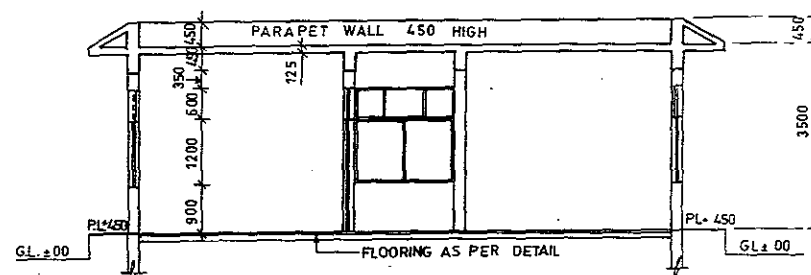
Canteen Building

Area - 10.0m x 15.0m

Scale - 1:100

POL Terminal - 7

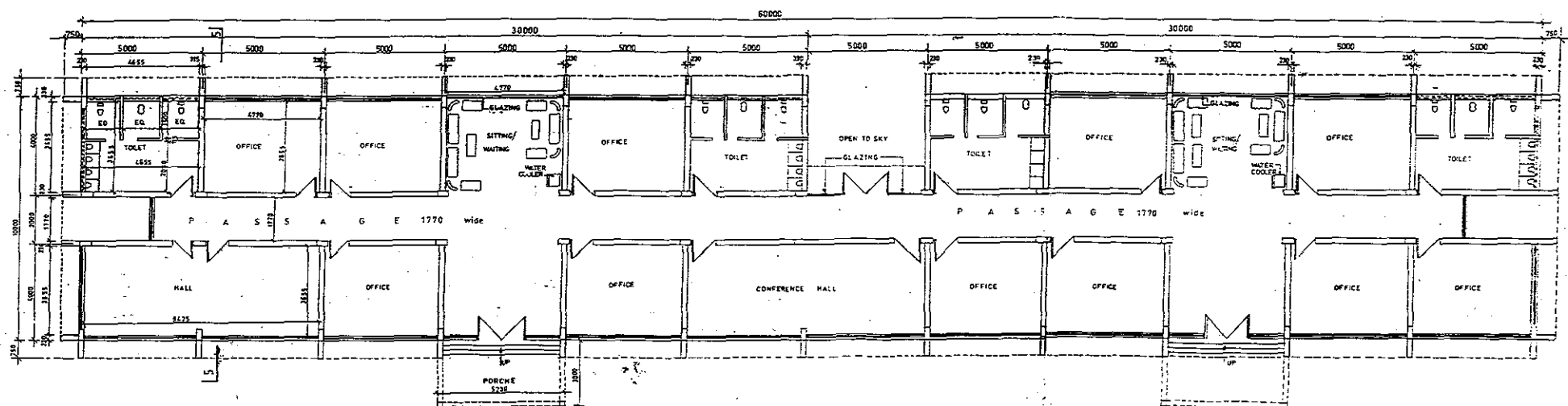
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Posit			
Canteen Building			
Scale	Date	Drg. No.	R
As Shown	Dec., 1997	GMB-DPR-SEC 3-20 (Sheet 1 of 2)	



Section 5-5

Scale -1: 100

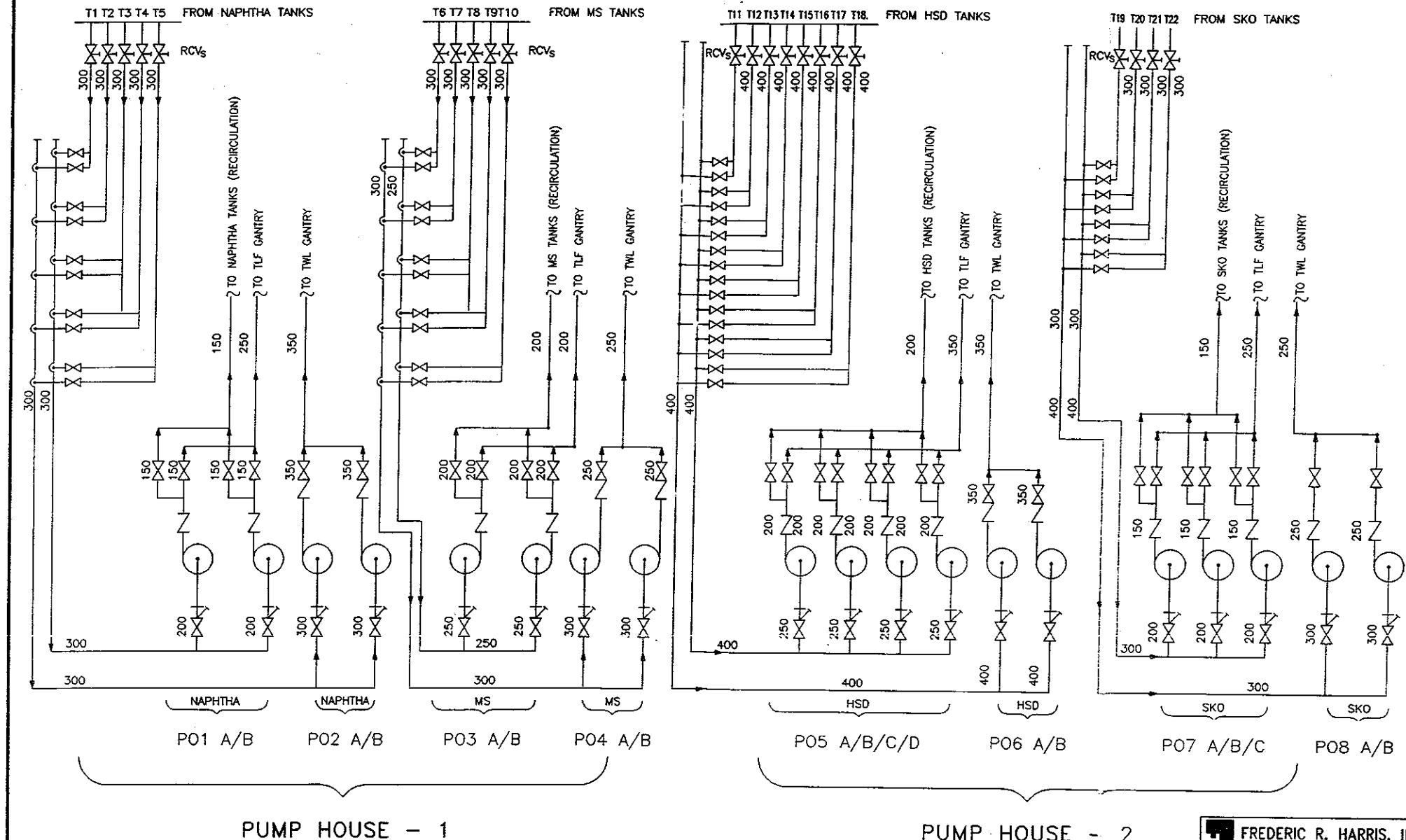
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Administrative Block			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-18 (Sheet 2 of 2)	0



Administrative Block

Area - 10.0m x 60.0m
Scale - 1:100

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Administrative Block			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 3-18 (Sheet 1 of 2)	0



FREDERIC R. HARRIS, INC. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSI			
PIPING SYSTEM AT POL TANKFARM			
SCALE	DATE	DRG. No.	RE
1"	DEC. 87	GMB-DPR-SEC3-16	

SCHEDULE OF FLOATING ROOF TANKS

TANK NO.	NOS.	SERVICE	CAPACITY (KL each)	SIZE(m) (DIA x HT.)
T1	1	NAPHTHA	12000	32 x 15
T2	1	NAPHTHA	20700	42 x 15
T3 & T4	2	NAPHTHA	29400	50 x 15
T5	1	NAPHTHA	42400	60 x 15
T6 & T7	2	GASOLINE	11200	32 x 14
T8 - T10	3	GASOLINE	29400	50 x 15

DESIGN DATA

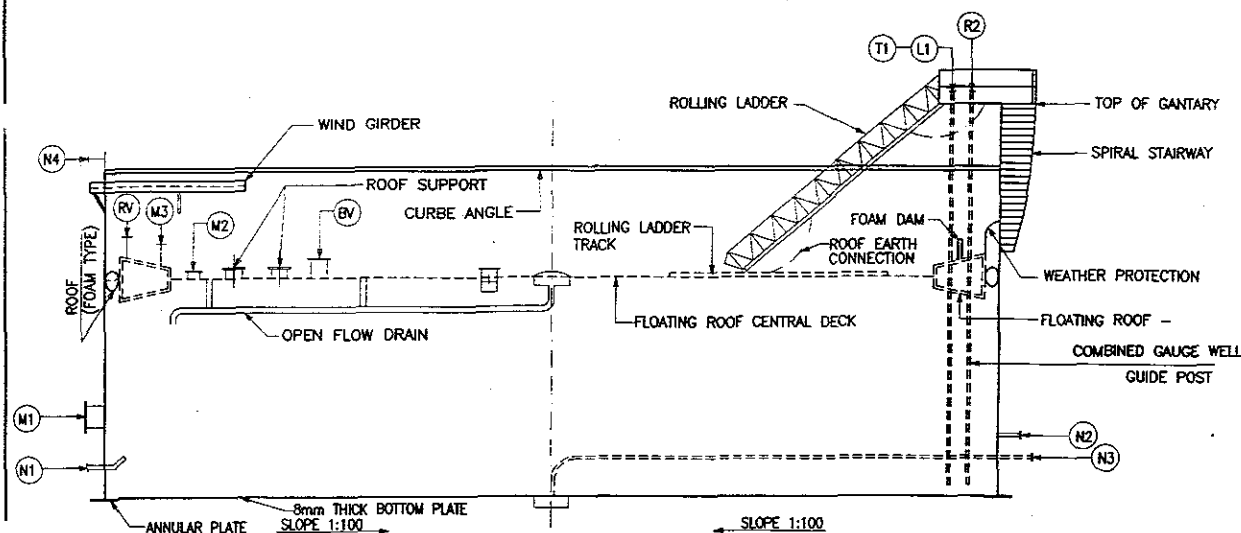
CODE	IS:803
REGULATION	INDIAN PETROLEUM ACT
OPERATING PRESSURE	ATM.
DESIGN PRESSURE	FULL OF WATER
DESIGN TEMPERATURE	65 DEG. C
OPERATING TEMPERATURE	45 DEG. C
HYDRAULIC TEST PRESSURE	FULL OF WATER
PNEUMATIC TEST PRESSURE	AS PER CODE
INSULATION	NIL
CORROSION ALLOWANCES	1.5mm
WIND LOAD / EARTHQUAKE	IS:875 / IS:1893
ANNULAR PLATE	10mm

MATERIAL

SHELL / ROOF / BOTTOM	IS:2062
INTERNALS	IS:2062 / A 106 GR B / IS:19
NOZZLE NECK	A 106 GR B / IS:1978
NOZZLE FLANGE	A 105
SUPPORTS	IS:2062 / IS:226
BOLTING	A 193 GR B7 / A194 GR 2H , IS:1363/1367
GASKETS	IS : 2712 (OIL SERVICE)
STRUCTURALS	IS : 226
ELECTRODES	E-6013

NOZZLES

MARK	NO. OFF	SERVICE
M1	2	SHELL MANHOLE
M2	2	ROOF MANHOLE
M3	TO BE DECIDED	INSPECTION HATCH
N1	1	OUTLET
N2	1	INLET
N3	1	DRAIN
N4		FOAM CONNECTION
RV	2	RIM VENT
BV	2	BLEEDER VENT
ED	1	EMERGENCY DRAIN
CD	1	CENTRAL DRAIN
L1	1	LEVEL INDICATOR
T1	1	TEMP. INDICATOR
R2	1	GAUGE PIPE WITH HATCH



FREDERIC R. HARRIS, INC
HARRIS Engineers, Planners, Economists & Consultant

GUJARAT MARITIME BOARD

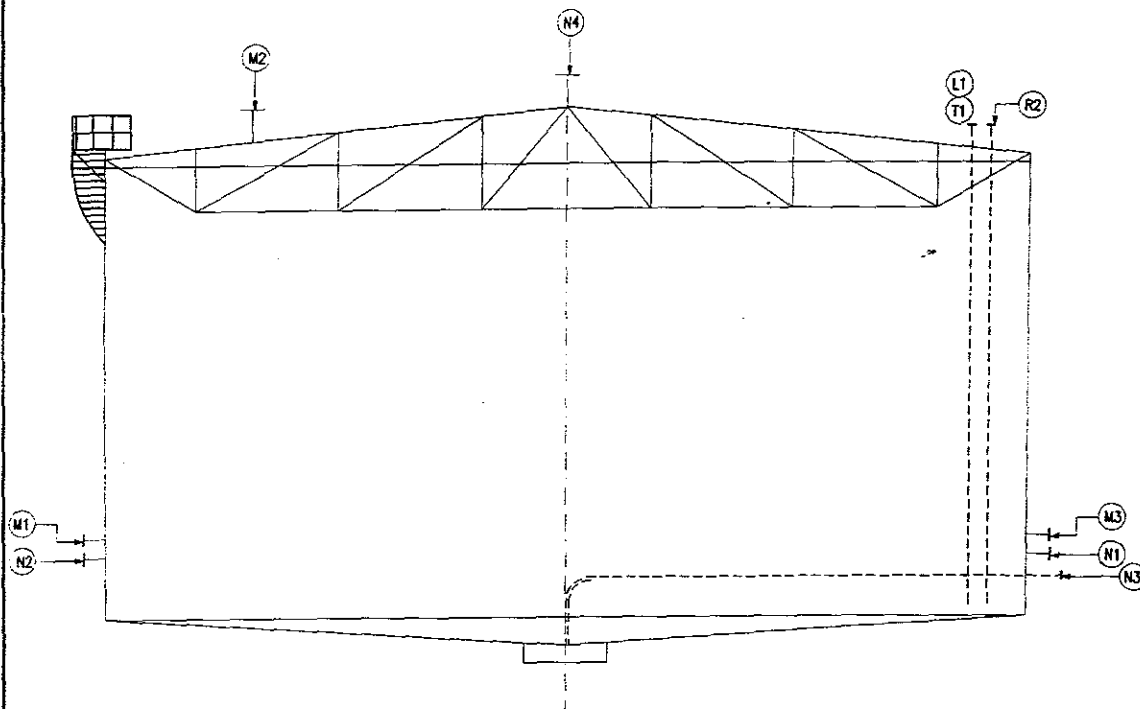
DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT PC

TYPICAL DETAILS OF FLOATING ROOF

SCALE	DATE	DRG. No.
---	DEC-87	GMB-DPR-SEC3-12

SCHEDULE OF CONE ROOF TANKS

TANK NO.	NOS.	SERVICE	CAPACITY (KL each)	SIZE(m) (DIA x HT.)
T11,T13,T15 & T17	4	DIESEL	42400	60 x 15
T12,T14 & T16	3	DIESEL	11200	32 x 14
T18	1	DIESEL	29400	50 x 15
T19 & T21	2	KEROSENE	42400	60 x 15
T20 & T22	2	KEROSENE	19300	42 x 14



DESIGN DATA

CODE	IS:803
REGULATION	INDIAN PETROLEUM ACT
OPERATING PRESSURE	ATM.
DESIGN PRESSURE	FULL OF WATER
DESIGN TEMPERATURE	65 DEG. C
OPERATING TEMPERATURE	45 DEG. C
HYDRAULIC TEST PRESSURE	FULL OF WATER
PNEUMATIC TEST PRESSURE	AS PER CODE
INSULATION	NIL
CORROSION ALLOWANCES	1.5mm
WIND LOAD / EARTHQUAKE	IS:875 / IS:1893
ANNULAR PLATE	10mm

MATERIAL

SHELL / ROOF / BOTTOM	IS:2062
INTERNALS	IS:2062 / A 106 GR B / IS:1
NOZZLE NECK	A 106 GR B / IS:1978
NOZZLE FLANGE	A 105
SUPPORTS	IS:2062 / IS:226
BOLTING	A 193 GR B7 / A194 GR 2H IS:1363/1367
GASKETS	IS : 2712 (OIL SERVICE)
STRUCTURALS	IS : 226
ELECTRODES	E-6013

NOZZLES

MARK	NO. OFF	SERVICE
M1	2	SHELL MANHOLE
M2	2	ROOF MANHOLE
M3	TO BE DECIDED	INSPECTION HATCH
N1	1	OUTLET
N2	1	INLET
N3	1	DRAIN
N4	2	VENT WITH FLAM ARRESTOR
L1	1	LEVEL INDICATOR
T1	1	TEMP. INDICATOR
R2	1	GAUGE PIPE WITH HATCH

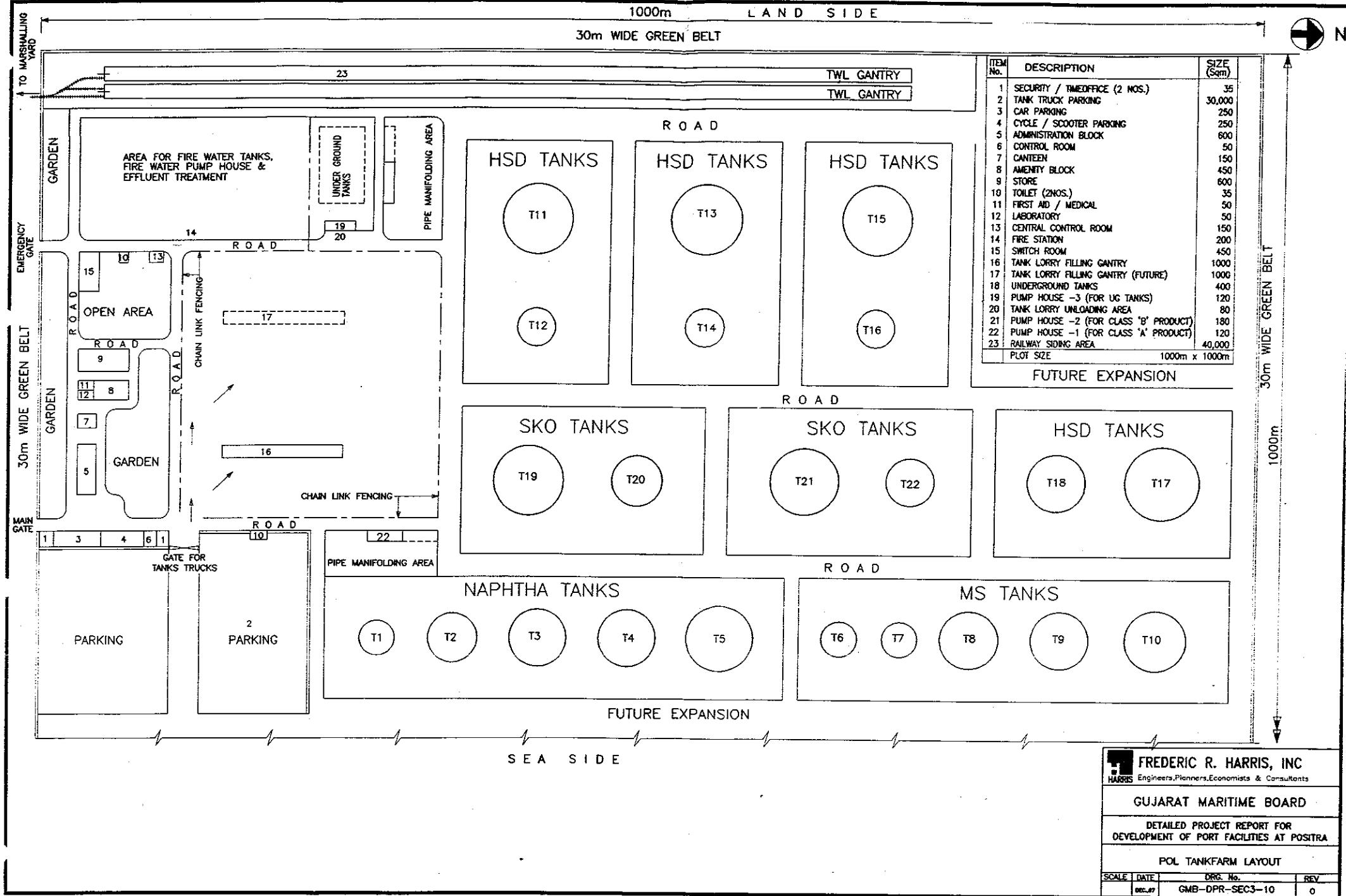
FREDERIC R. HARRIS, INC
Engineers, Planners, Economists & Consultants

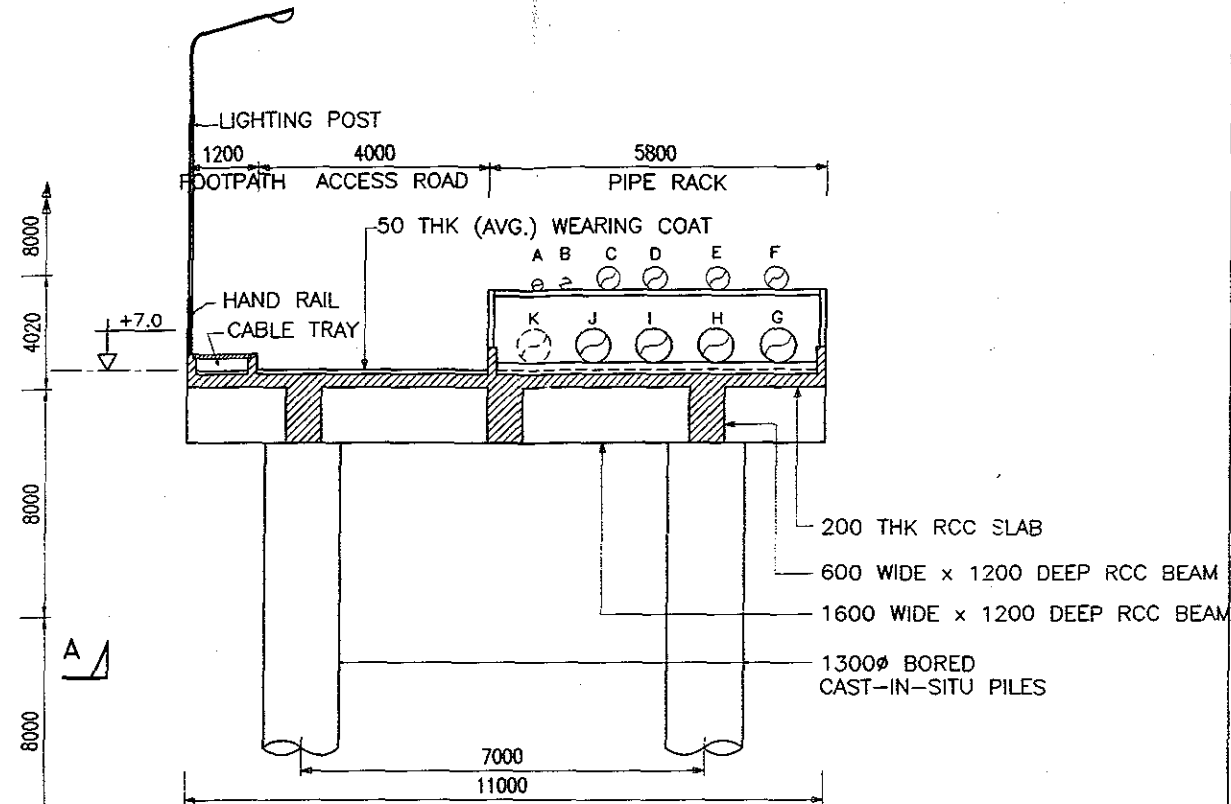
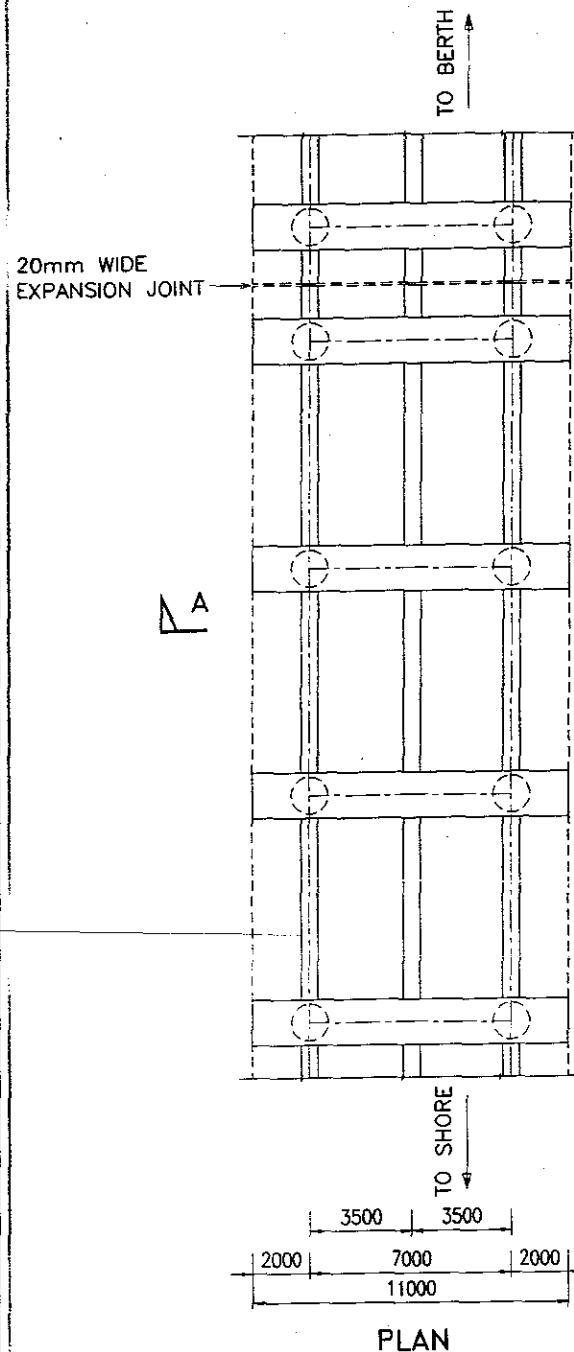
GUJARAT MARITIME BOARD

DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT PO:

TYPICAL DETAILS OF CONE ROOF T/

SCALE	DATE	DRG. No.
—	DEC-97	GMB-DPR-SEC3-11

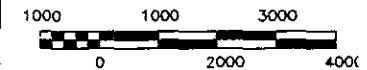




SECTION A-A

LEGEND:

- A Fresh Water Line
- B Bunkering Line (By Others)
- C Tower Monitor Line
- D Fire Hydrant Line
- E Deblasting Line
- F Foam Supply Line
- G,H,I,J Product Lines - 4 Nos.
- K Future Product Line



SCALE IN MILLIMETRES

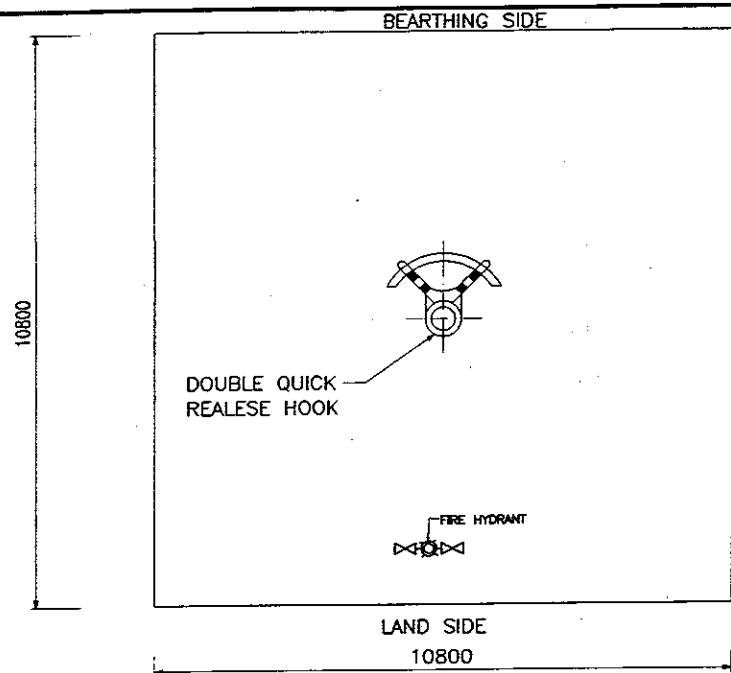
FREDERIC R. HARRIS, INC
Engineers, Planners, Economists & Consultants

GUJARAT MARITIME BOARD

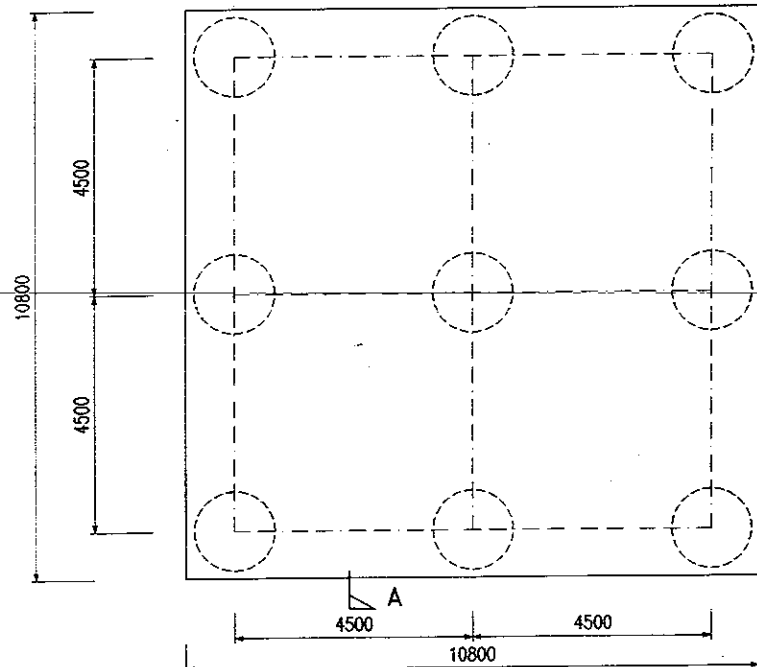
DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT POSI

STRUCTURAL ARRANGEMENT OF
POL APPROACH TRETTLE

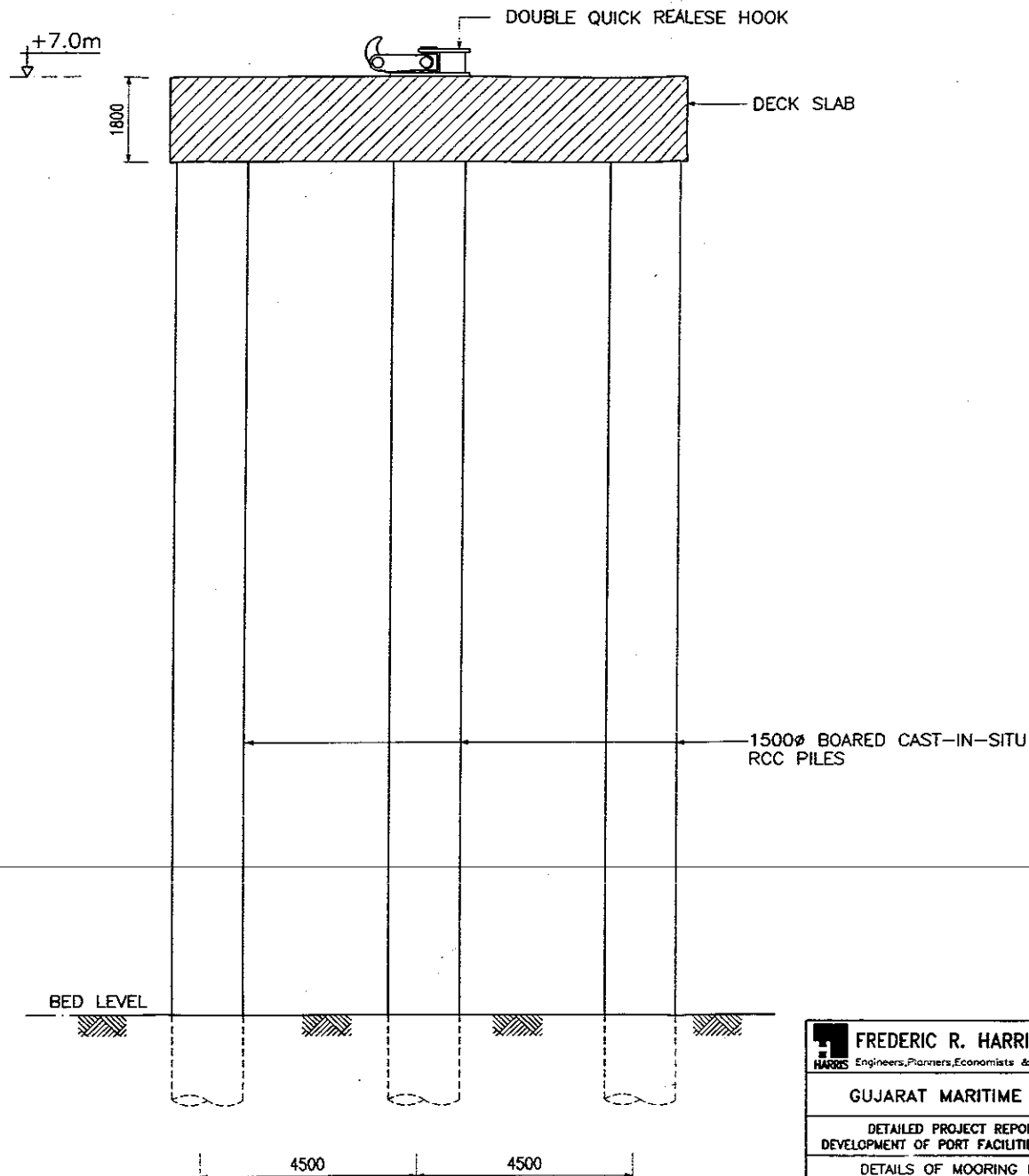
SCALE	DATE	DRG. No.	B
AS SHOWN	DEC. 87	GMB-DPR-SEC3-09	



A PLAN

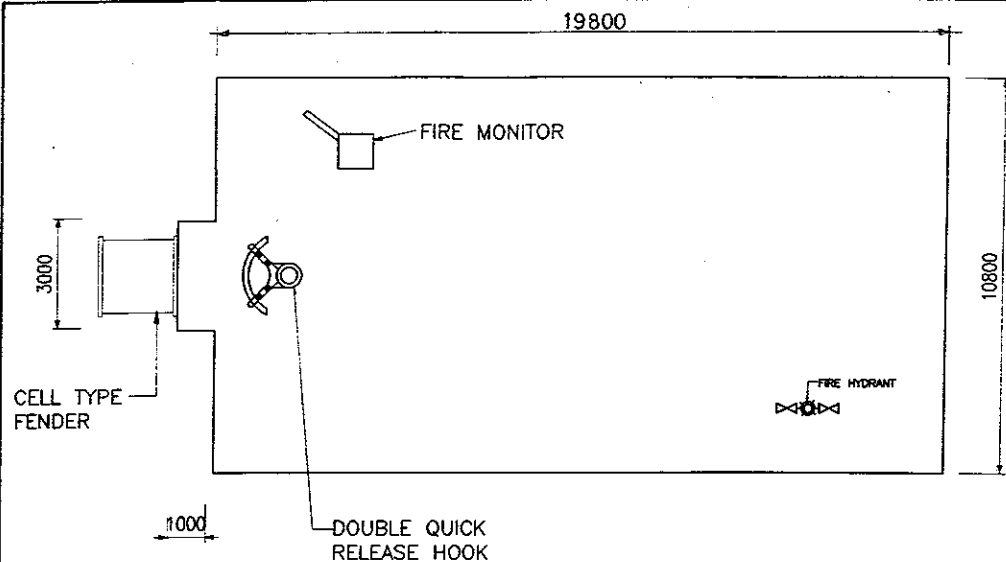


STRUCTURAL PLAN

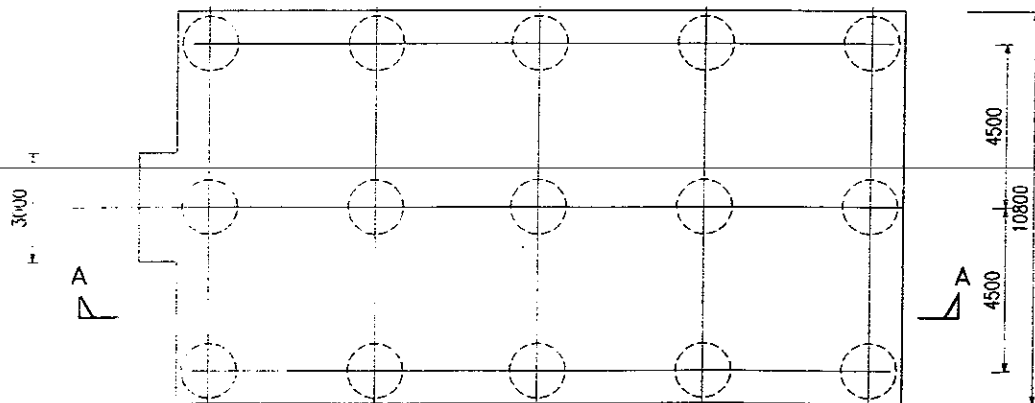
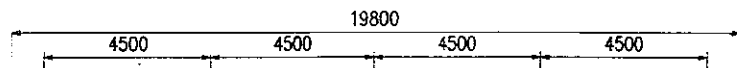


SECTION A-A

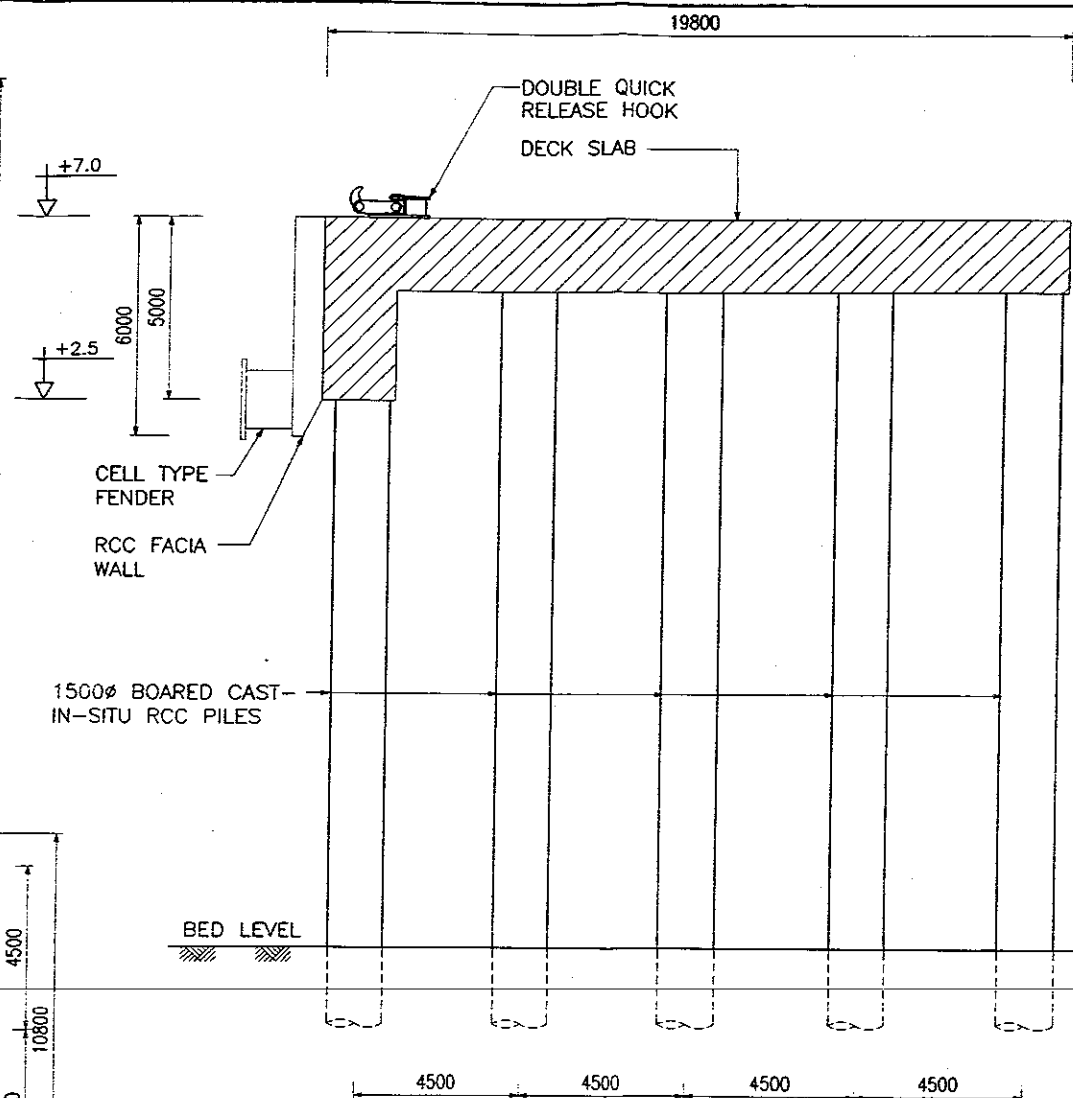
FREDERIC R. HARRIS, INC Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITRA			
DETAILS OF MOORING DOLPHIN AT POL JETTY			
SCALE	DATE	DWG. No.	REV
1:100	DEC-07	GMB-DPR-SEC3-07	0



PLAN



STRUCTURAL PLAN



SECTION A-A

FREDERIC R. HARRIS, INC Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITI			
DETAILS OF BREASTING DOLPHIN AT POL JETTY			
SCALE	DATE	DRG. No.	RE
1:100	DEC. 97	GMB-DPR-SEC3-06	0

22m

28m

3.0m

3.0m

3.0m

UNLOADING ARM

4

3

2

1

3m

CONTROL CABIN

FIRE MONITOR

TOILET

OPERATOR SHELTER

SLOP TANK

FIRE HYDRANT

APPROACH ROAD

PIPE LINES

TO OIL TANKFARM

5.8m

5.2m

SERVICE PLATFORM LAYOUT

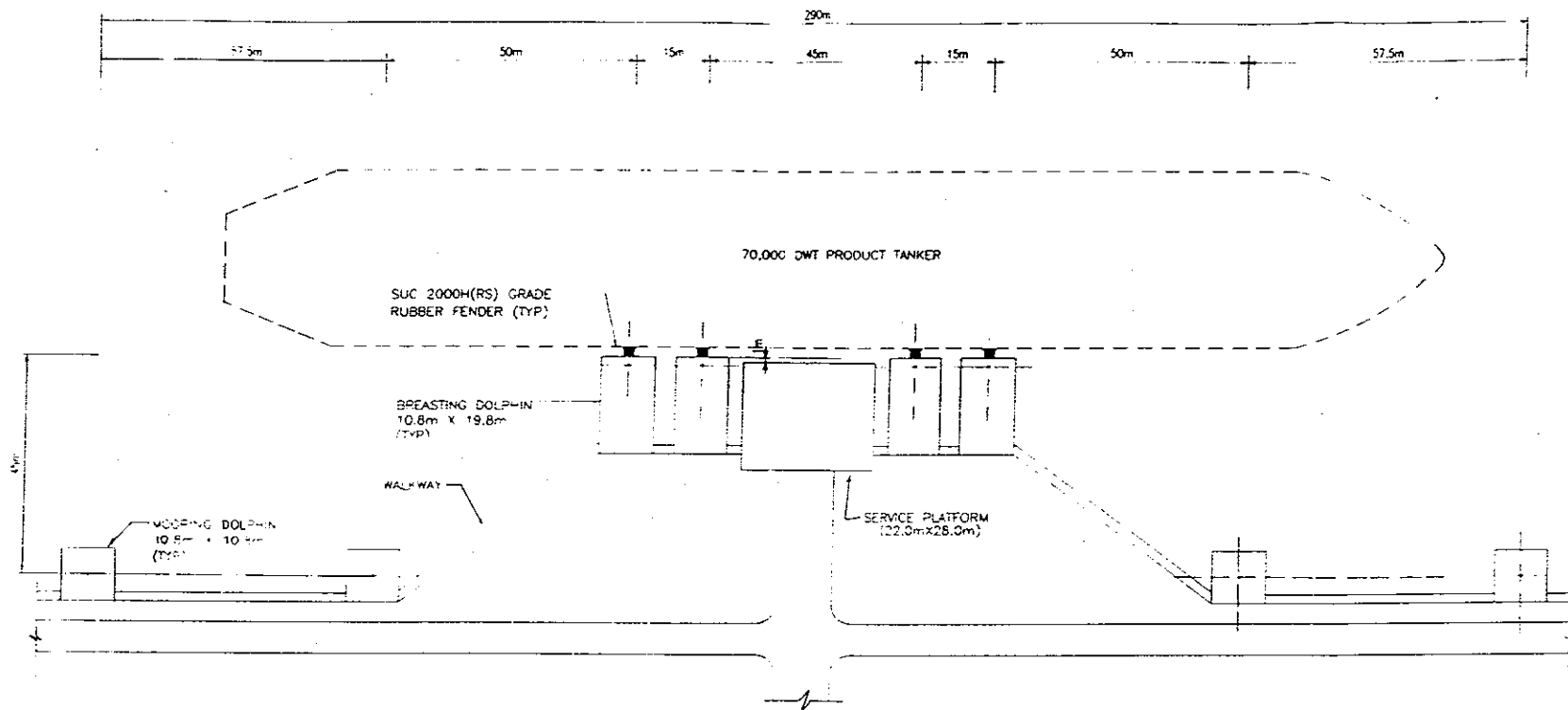
FREDERIC R. HARRIS, INC
Engineers, Planners, Economists & Consultants

GUJARAT MARITIME BOARD

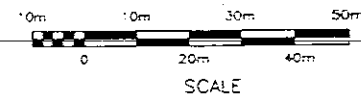
DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT POSIT

LAYOUT OF SERVICE PLATFORM

SCALE	DATE	DRG. No.	RE
DEC-87		GMB-DPR-SEC3-05	C



LAYOUT PLAN OF MIDDLE P.O.L. BERTH



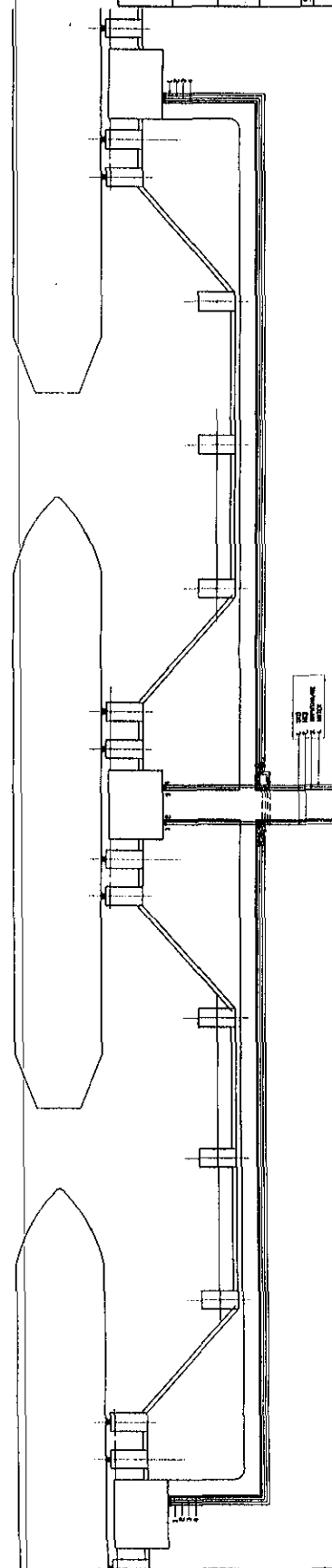
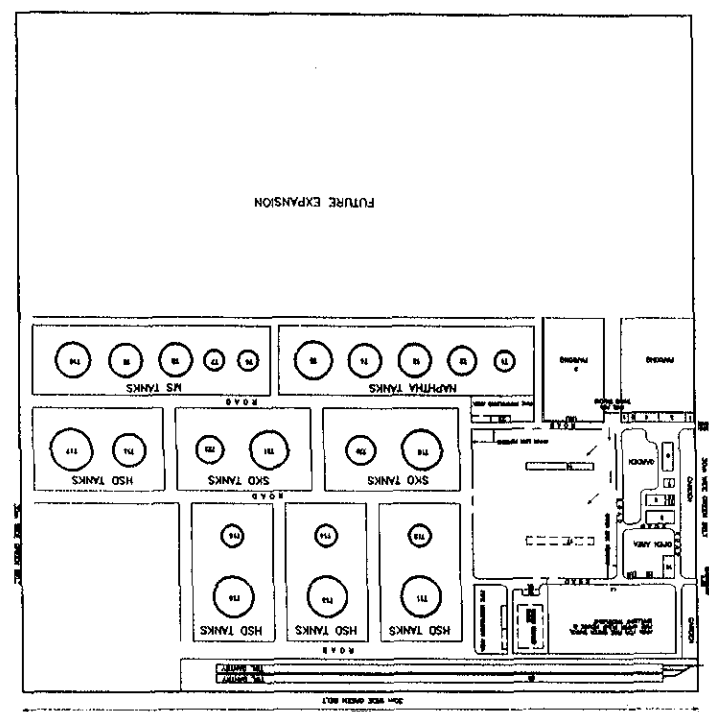
FREDERIC R. HARRIS, INC.

GUJARAT MARITIME BOARD

DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT POSITRA

LAYOUT OF P.O.L. BERTHS

SCALE	DATE	DWG. No.	REV.
AS SHOWN	DEC. 87	CMB-DPR-SEC3-04 (SHEET 2 OF 2)	0



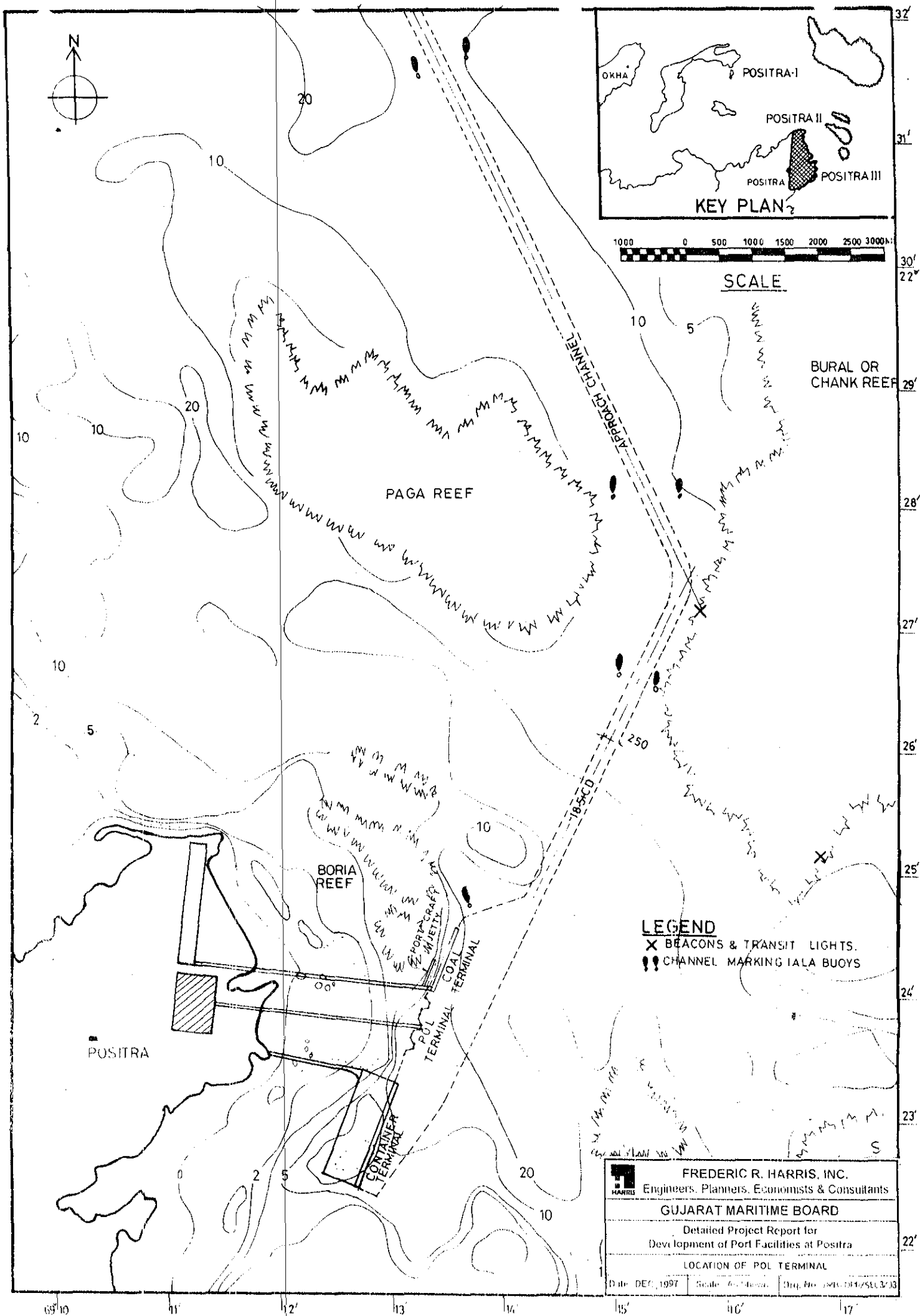
FREDERIC R. HARRIS, INC.
Engineers, Planners, Economists & Consultants

GUJARAT MARITIME BOARD

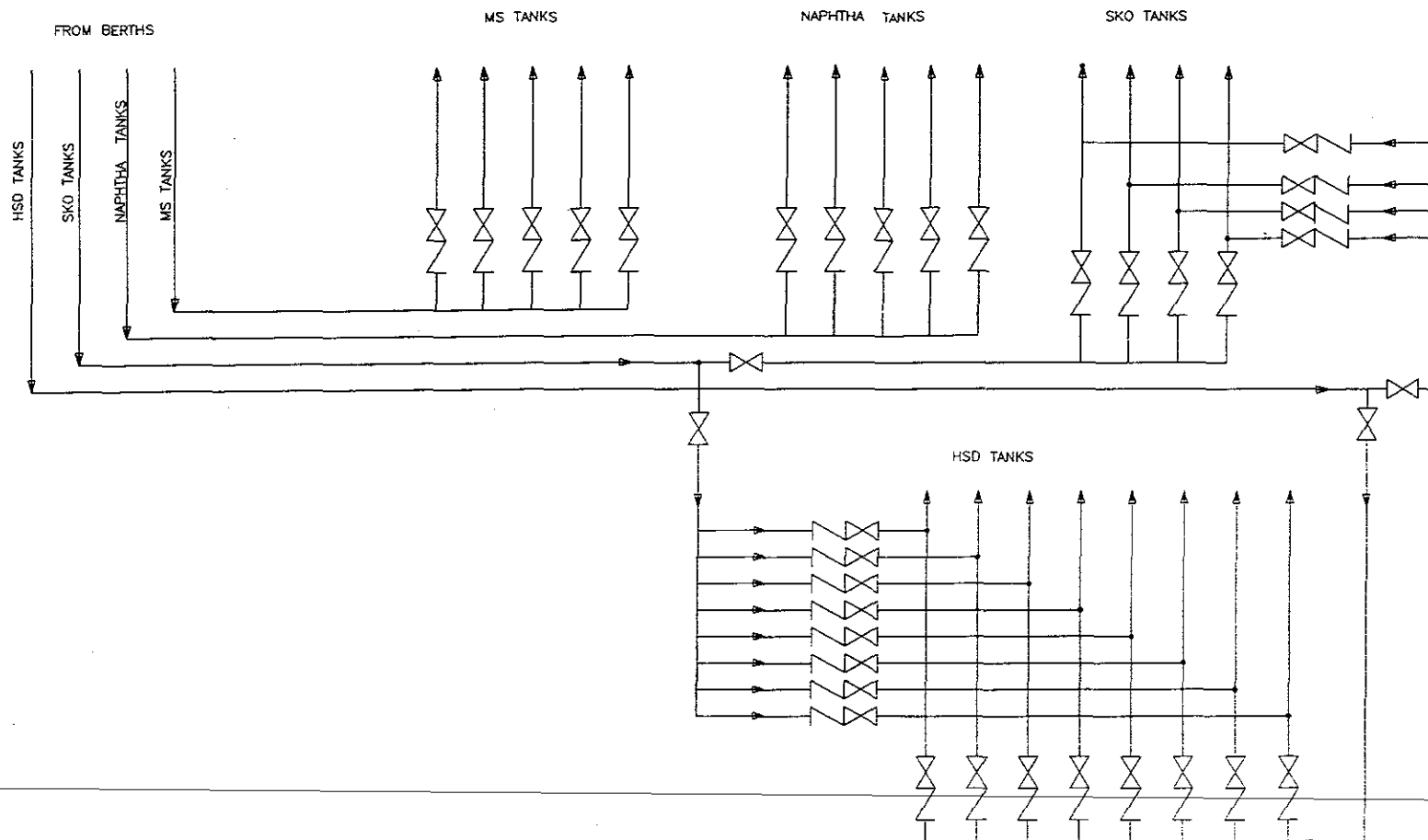
DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT P

LAYOUT OF POL BERTHS

SCALE	DATE	DRG. No.
	DEC. 97	GMB-DPR-SEC3-04
		(SHEET 1 OF 2)



	FREDERIC R. HARRIS, INC.		
	Engineers, Planners, Economists & Consultants		
	GUJARAT MARITIME BOARD		
	Detailed Project Report for Development of Port Facilities at Positra		
LOCATION OF POL TERMINAL			
Date: DEC. 1997	Scale: As Shown	Dwg. No.: 8410-D14/SUB-3/33	



NOTE:

o ALL PIPE LINE SIZES 600NB

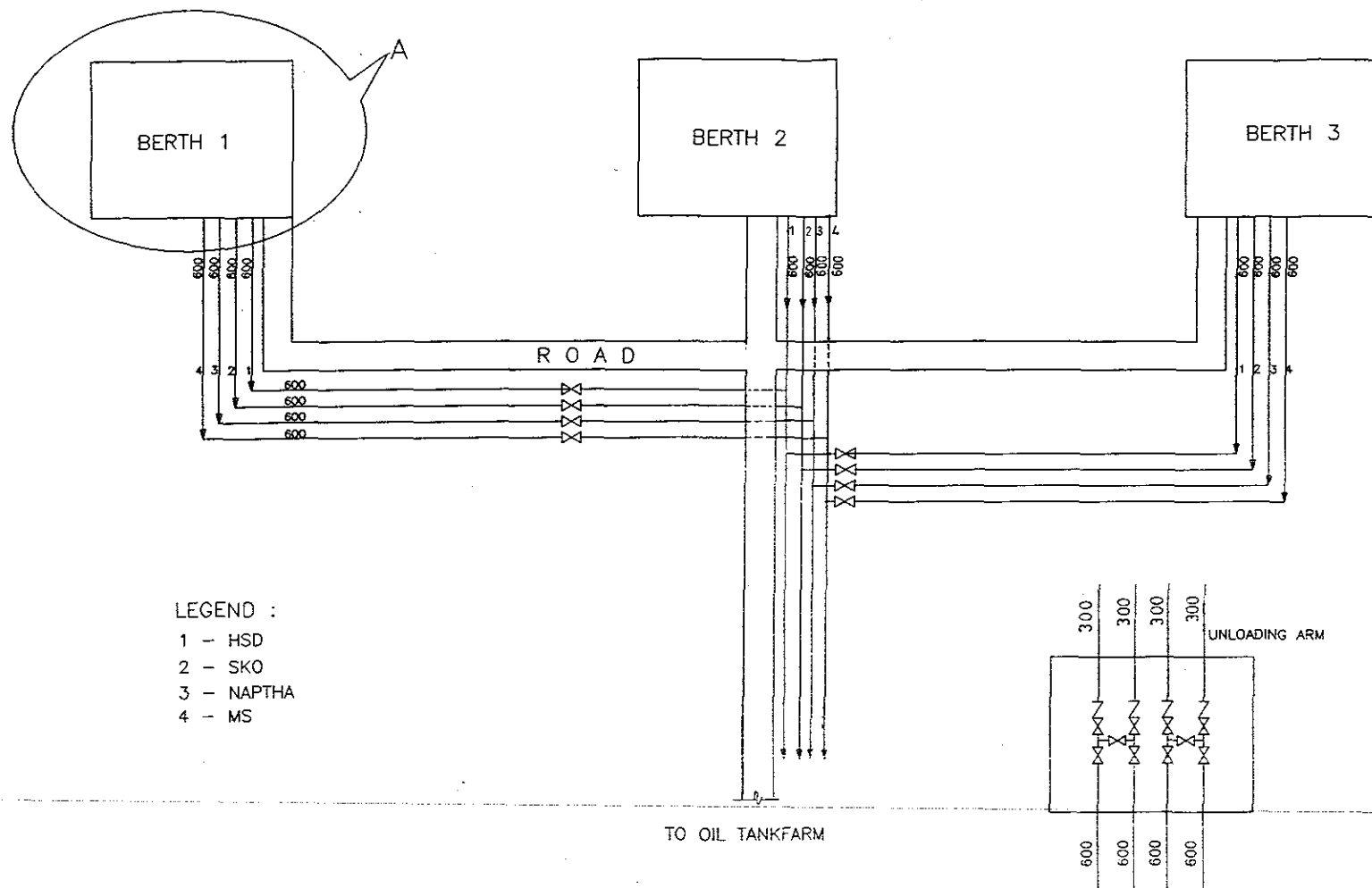
FREDERIC R. HARRIS, INC
Engineers, Planners, Economists & Consultants

GUJARAT MARITIME BOARD

DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT POSITRA

PRODUCT FLOW DIAGRAM
FROM BERTH TO TANKFARM

SCALE	DATE	DRG. No.	REV
	000.07	GMB-DPR-SEC3-02	0



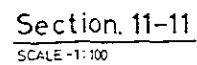
LEGEND :
 1 - HSD
 2 - SKO
 3 - NAPTHA
 4 - MS

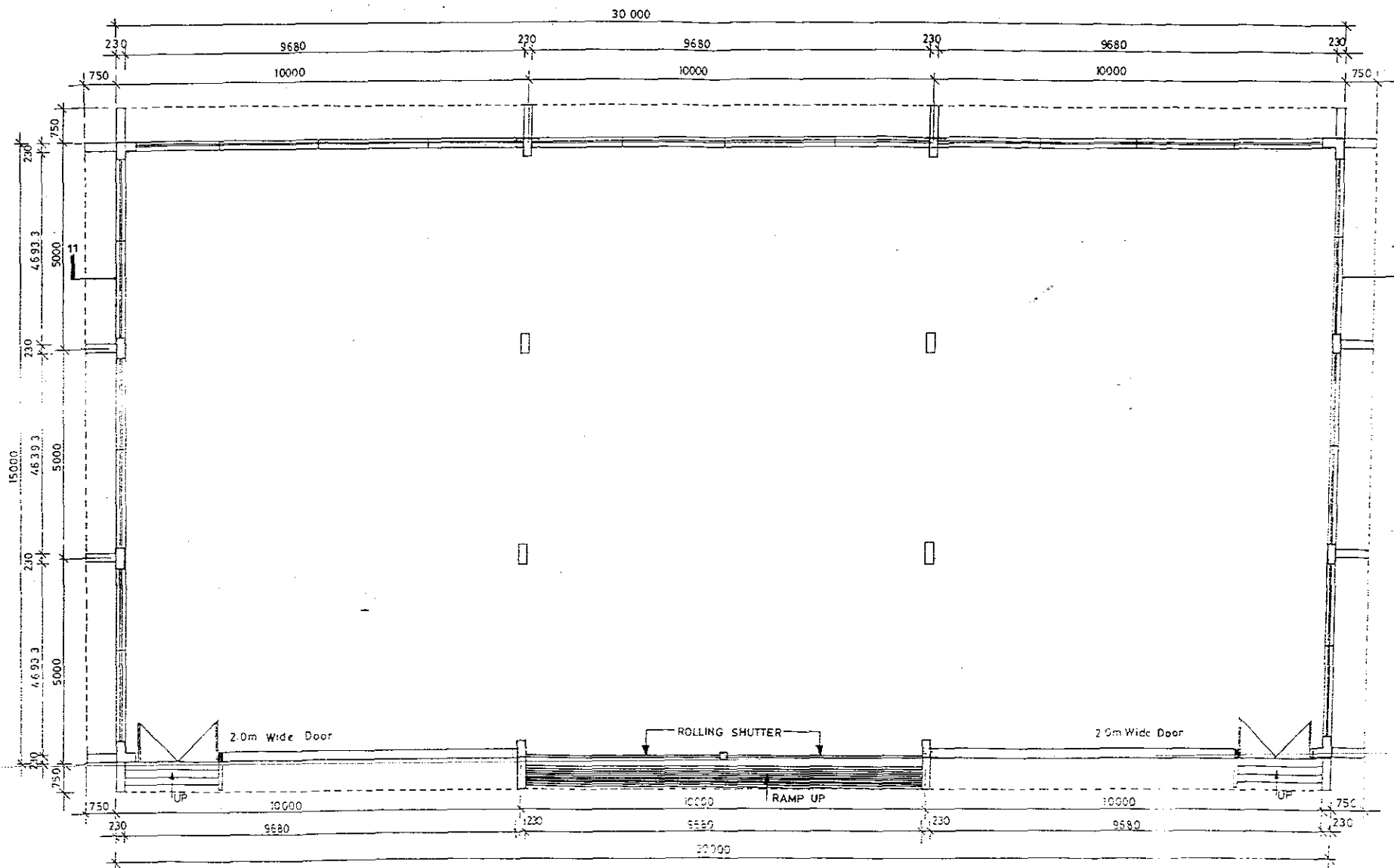
TO OIL TANKFARM

PIPING ARRANGEMENT AT POL BERTHS

DETAIL - A

FREDERIC R. HARRIS, INC Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POST			
PIPING ARRANGEMENT AT POL BERTHS			
SCALE	DATE	DRG. No.	R/
M.T.S	DEC-87	GMB-DPR-SEC3-01	



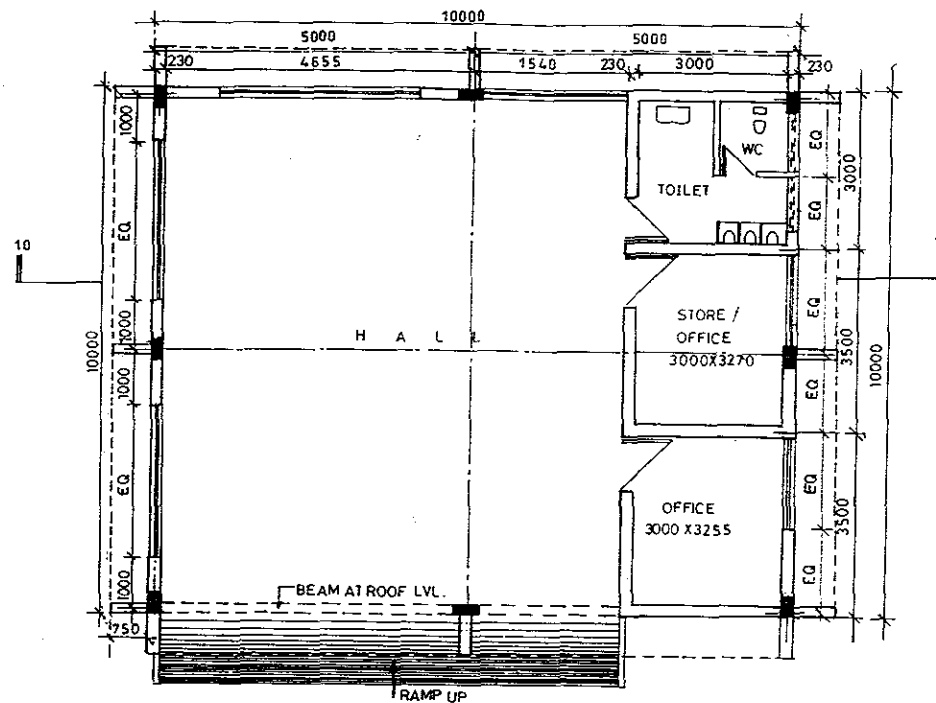


STORE SHED

Area - 15.0m x 30.0m
Scale - 1:100

COAL Terminal - 11

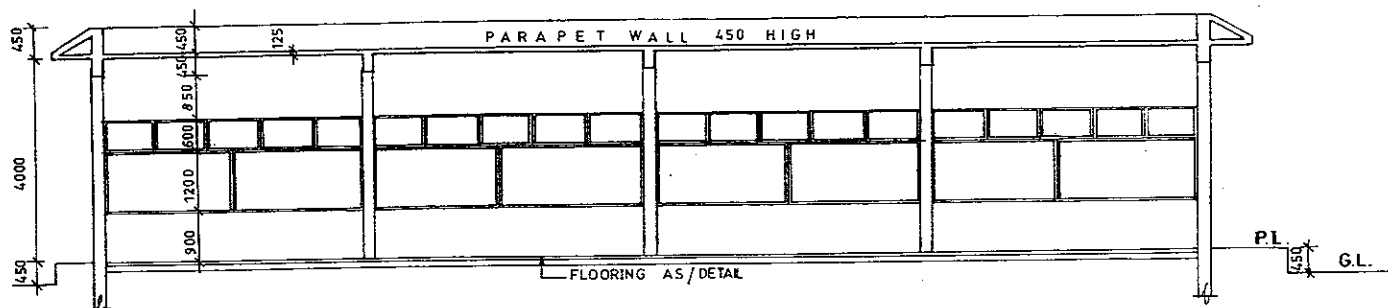
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Store Shed			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 2-18 (Sheet. 1 of 2)	0



Fire Station

Area - 10.0x10.0m
SCALE - 1:100

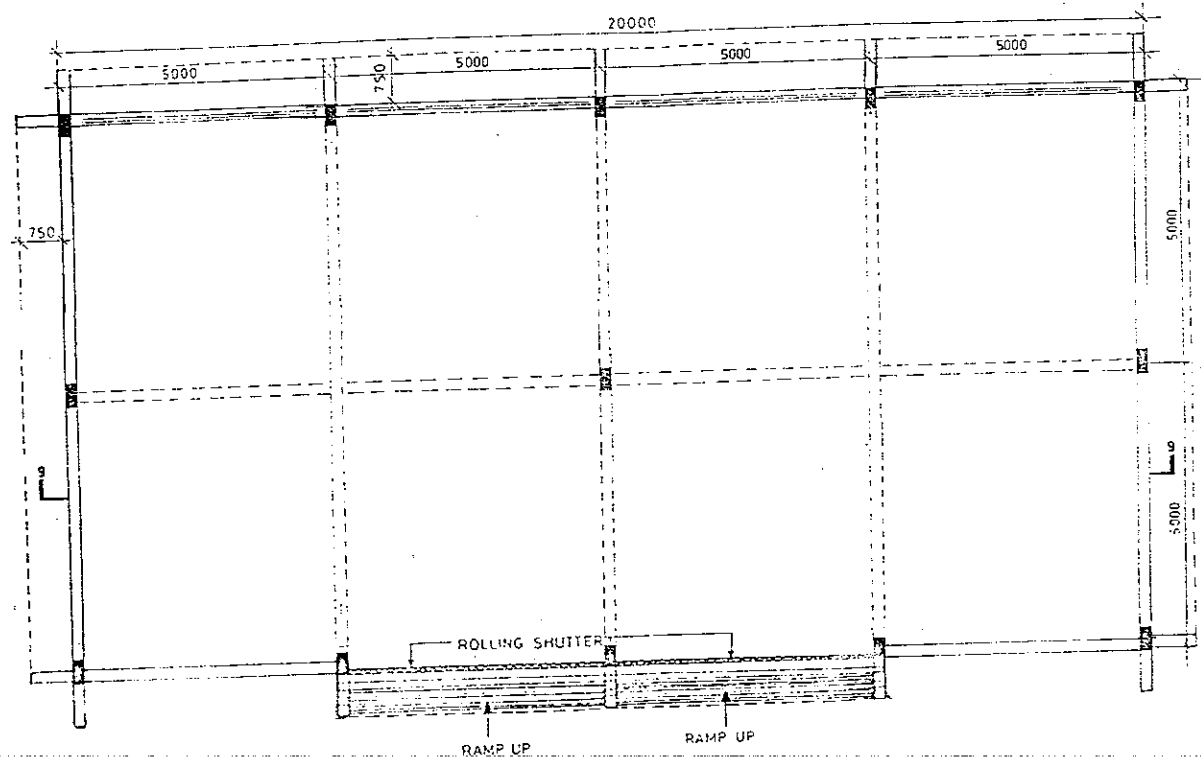
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Fire Station			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 2-17 (Sheet 1 of 2)	0



Section 9-9

COAL Terminal - 9

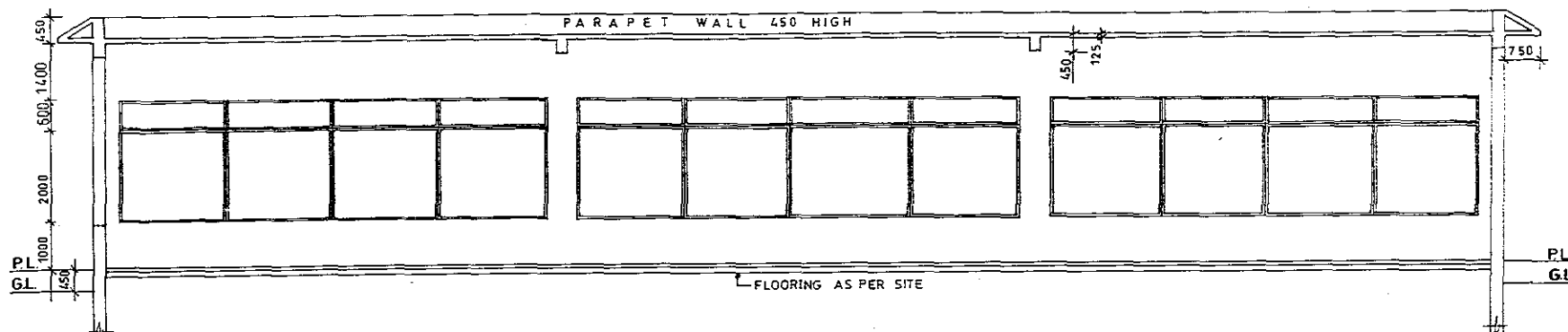
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Pump House			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 2-16 (Sheet 2 of 2)	0



PUMP HOUSE

Area - 100 x 200m SCALE - 1:100

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Pump House			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 2-16 (Sheet 1 of 2)	0

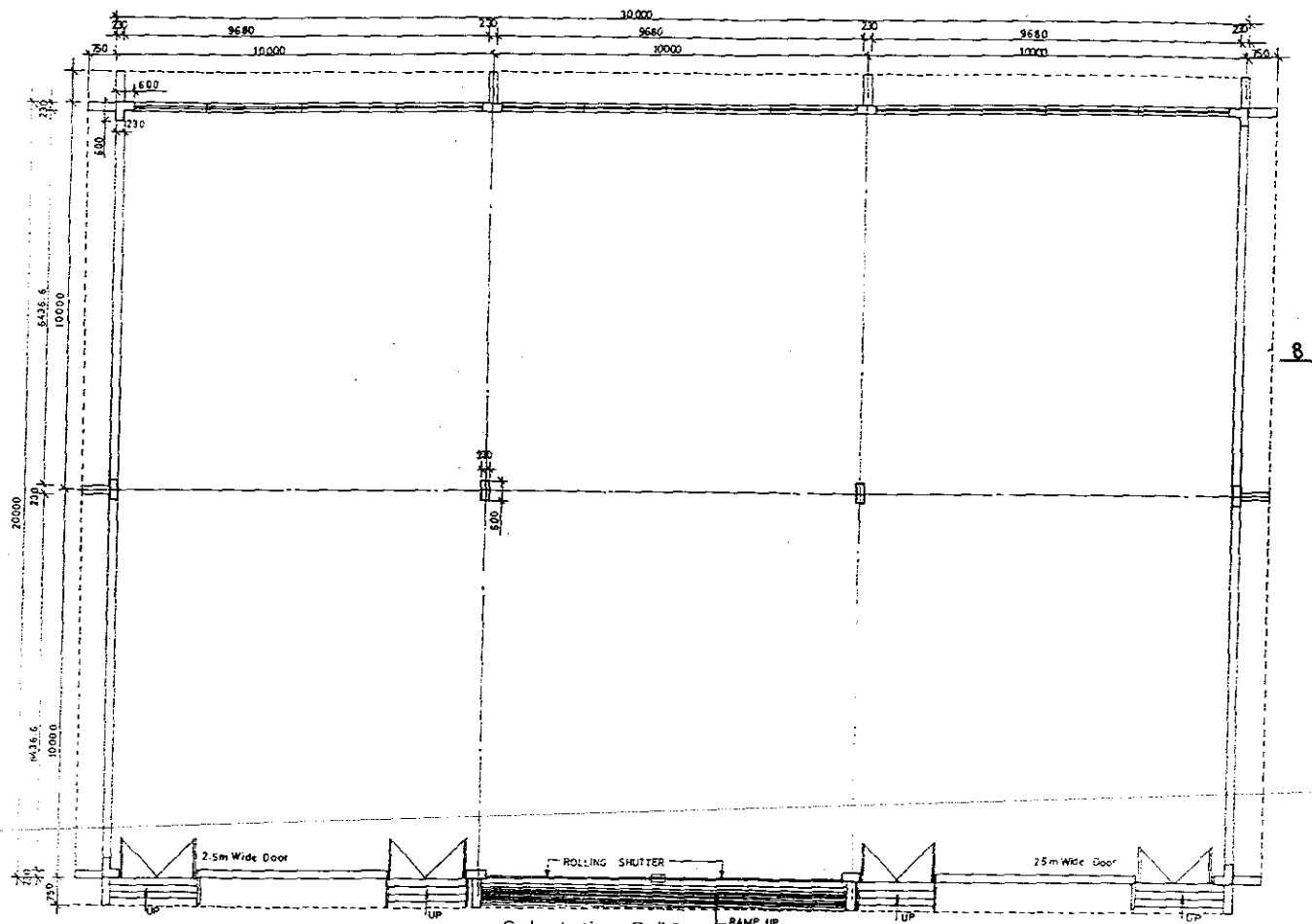


Section 8-8

Scale - 1:100

COAL Terminal - 8

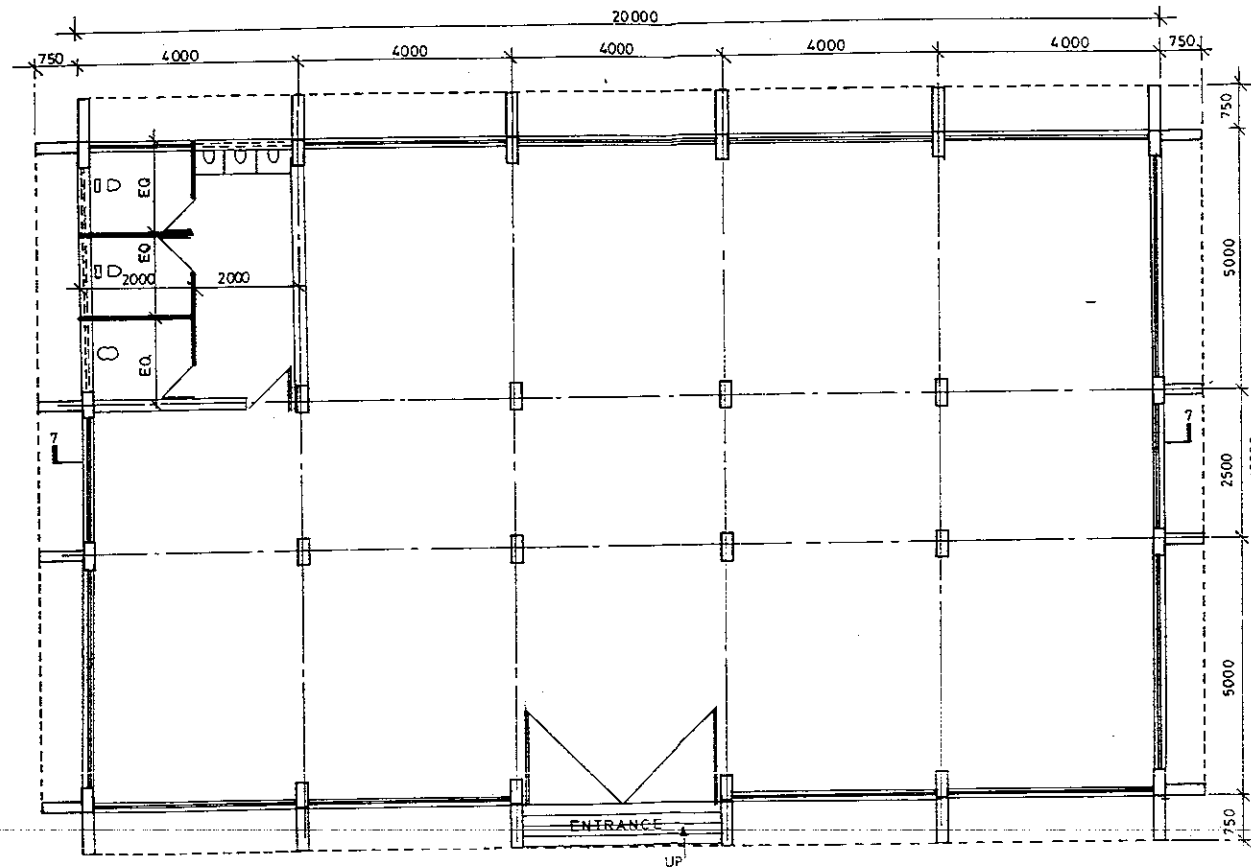
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Sub-station			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 2-15 (Sheet 2 of 2)	0



Sub-station Building
 Area - 20.0m x 30.0m
 Scale - 1:100

COAL Terminal

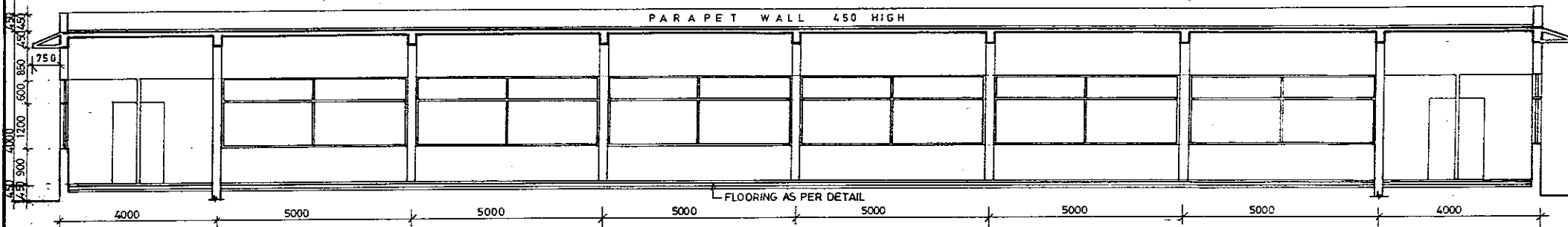
 Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Sub-station			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 2-15 (Sheet 1 of 2)	0



Quay Office
 AREA - 12.5 x 20.0m
 SCALE - 1:100

COAL Terminal - 7

Frederic R. Harris, Inc. Engineers Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Pos			
Quay Office			
Scale	Date	Org. No.	
As Shown	Dec., 1997	GMB-DPR-SEC 2-14 (Sheet 1 of 2)	

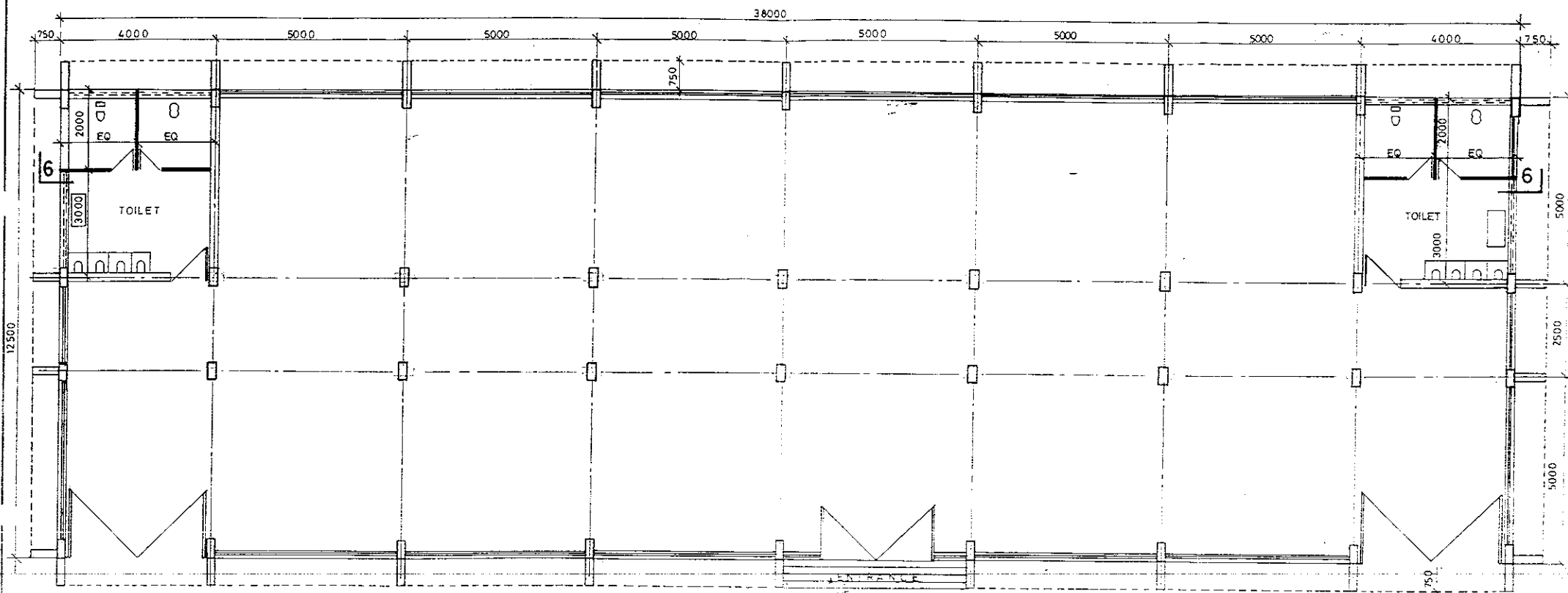


Section. 6-6

SCALE -1:100

COAL Terminal-6

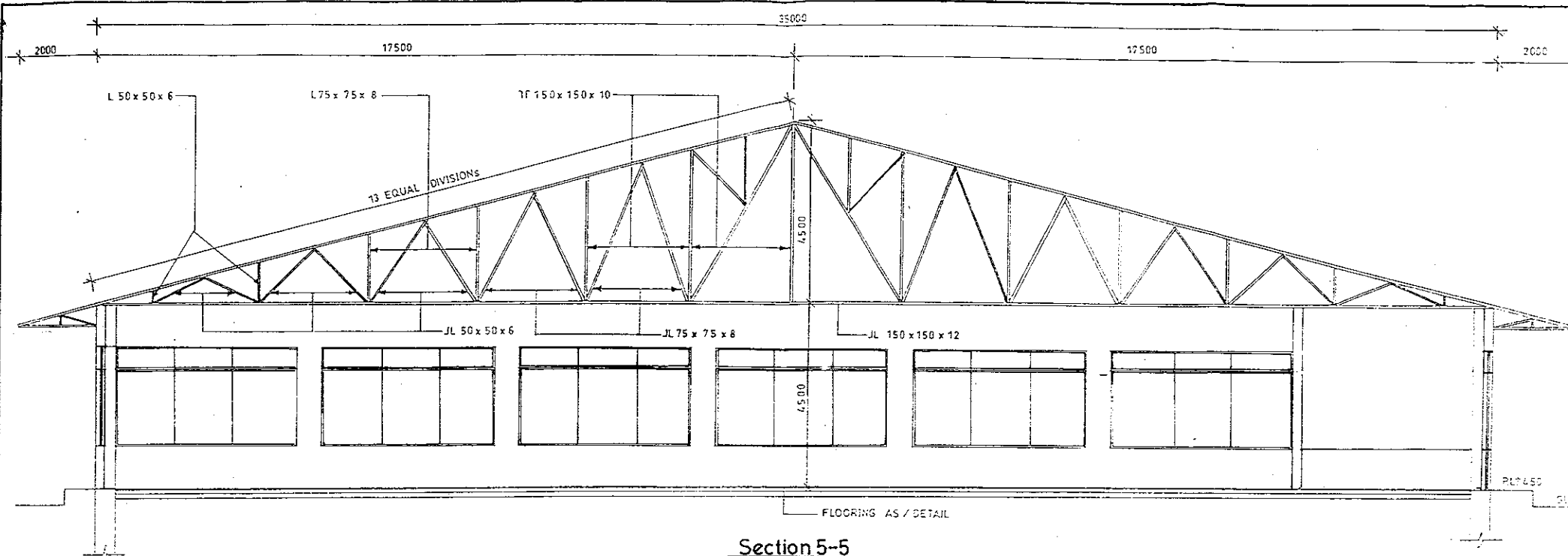
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Yard Office			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 2-13 (Sheet 2 of 2)	0



Yard Office
 AREA - 12.5 x 38.0m
 SCALE - 1:100

COAL Terminal - 6

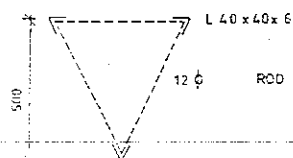
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Yard Office			
Scale	Date	Drg. No.	Rev.
As Shown	Dec., 1997	GMB-DPR-SEC 2-13 (Sheet 1 of 2)	0



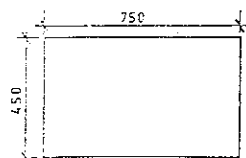
Section 5-5

TYPICAL TRUSS DETAIL FOR MAINTENANCE WORKSHOP & ANNEX

SCALE - 1:100

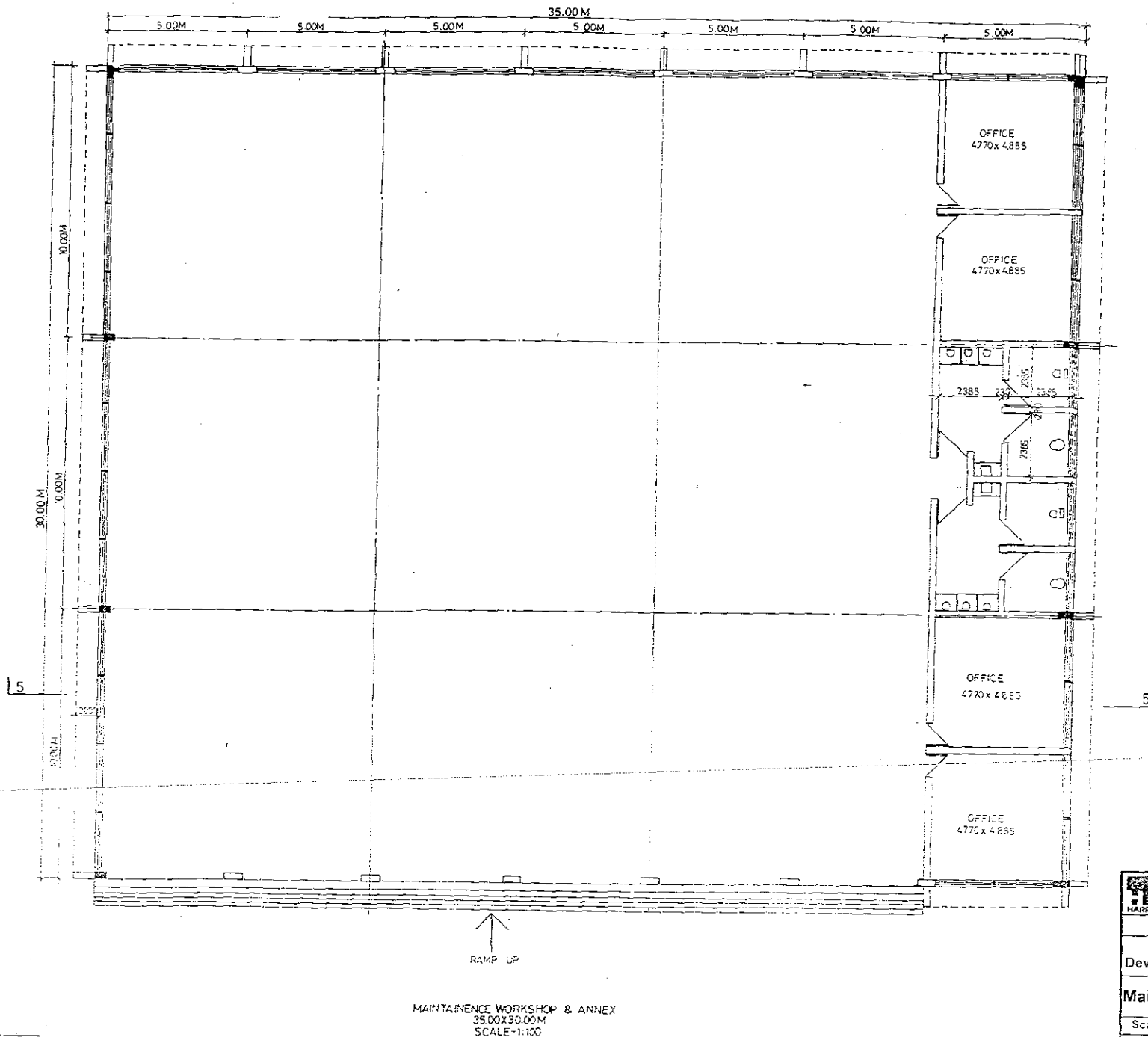


PURLINS DETAIL
SCALE - 1:20



COLUMNS DETAILS
SCALE - 1:20

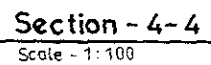
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants HARRIS		
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Port		
Maintenance Workshop & Annex		
Scale	Date	Dwg. No.
As Shown	Dec., 1997	GMB-DPR-SEC 2-12 (Sheet 2 of 2)



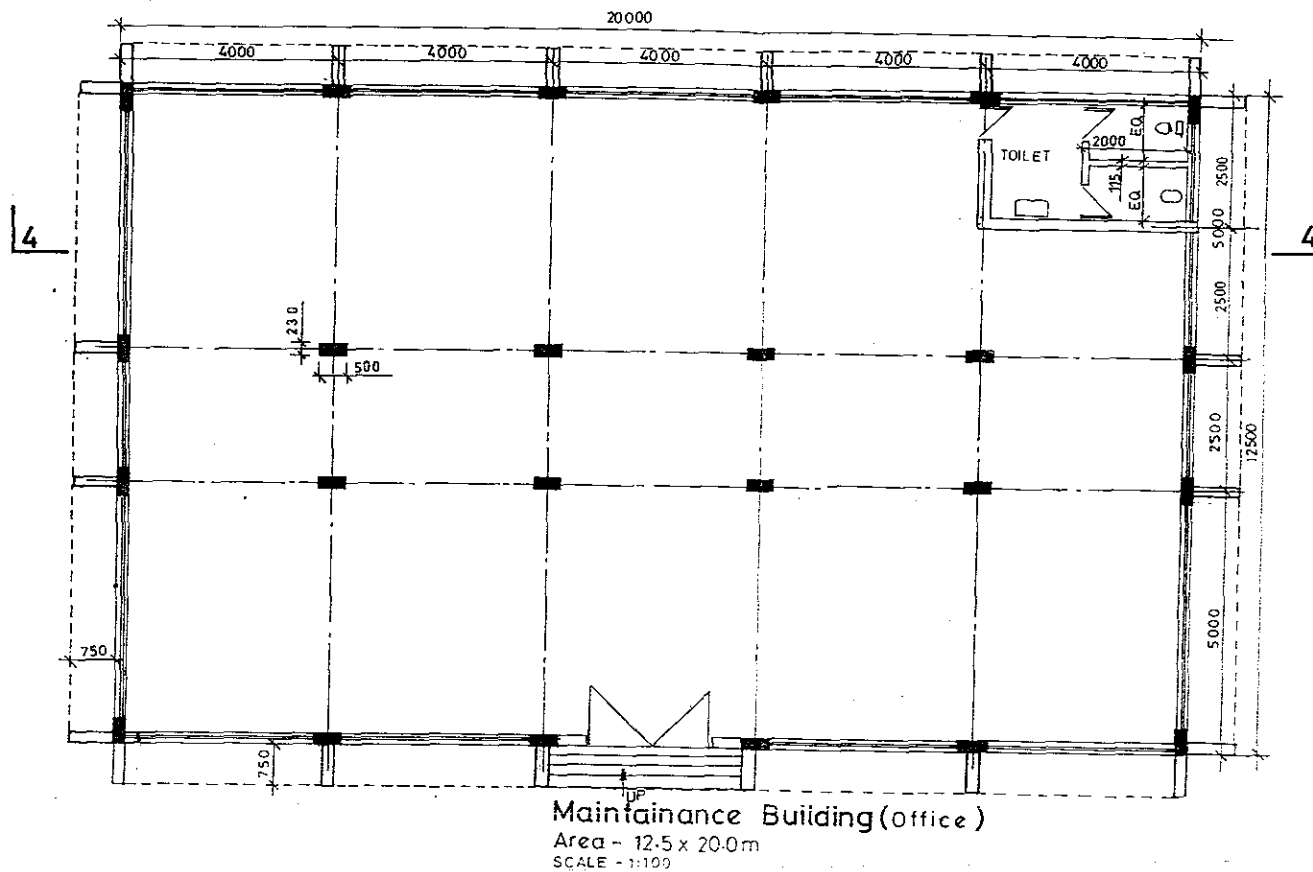
COAL Terminal - 5

MAINTENANCE WORKSHOP & ANNEX
35.00x30.00M
SCALE=1:100

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Maintenance Workshop & Annexe			
Scale	Date	Org. No.	Rev
As Shown	Dec. 1997	GMB-DPR-SEC 2-12 (Sheet 1 of 2)	0

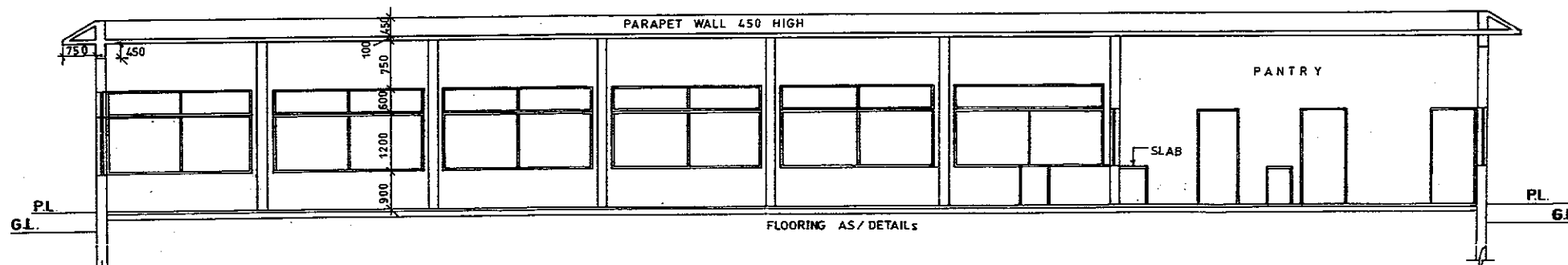


 Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Maintenance Building			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC-2-11 (Sheet 2 of 2)	C



COAL Terminal-4

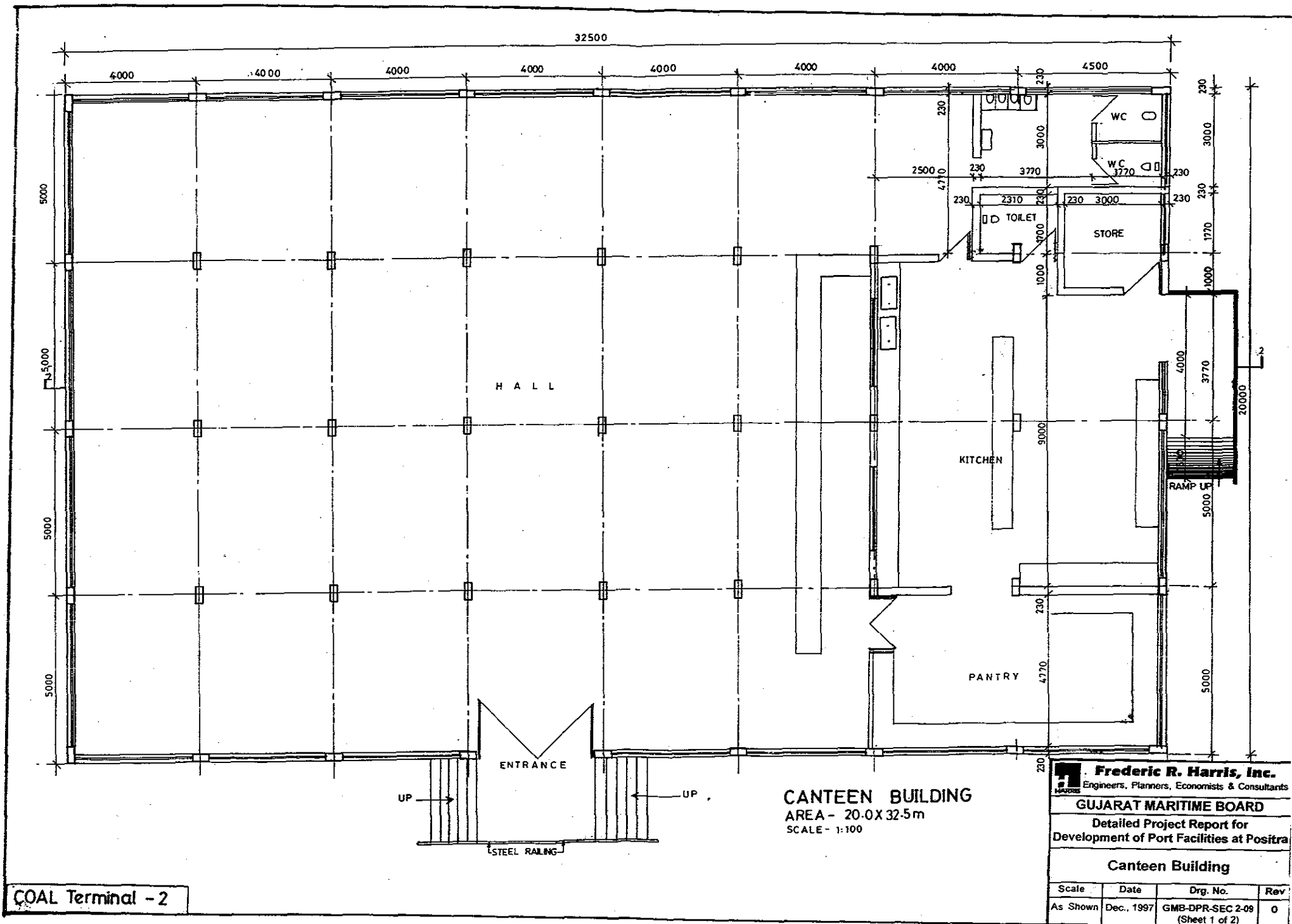
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Maintenance Building			
Scale	Date	Dwg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 2-11 (Sheet 1 of 2)	0



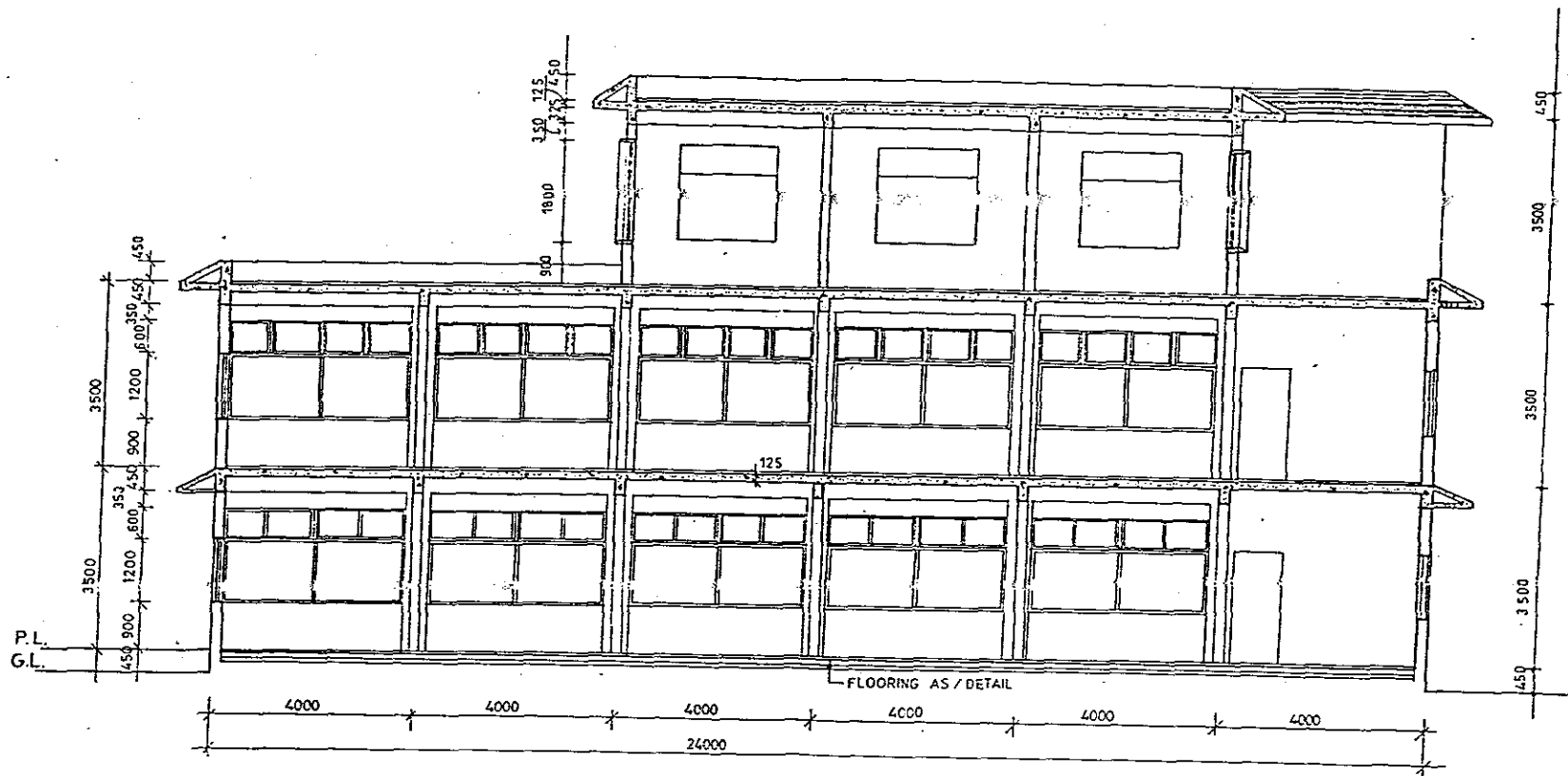
Canteen building
Scale - 1:100

Section 2-2

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Positra			
Canteen Building			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 2-09 (Sheet 2 of 2)	0

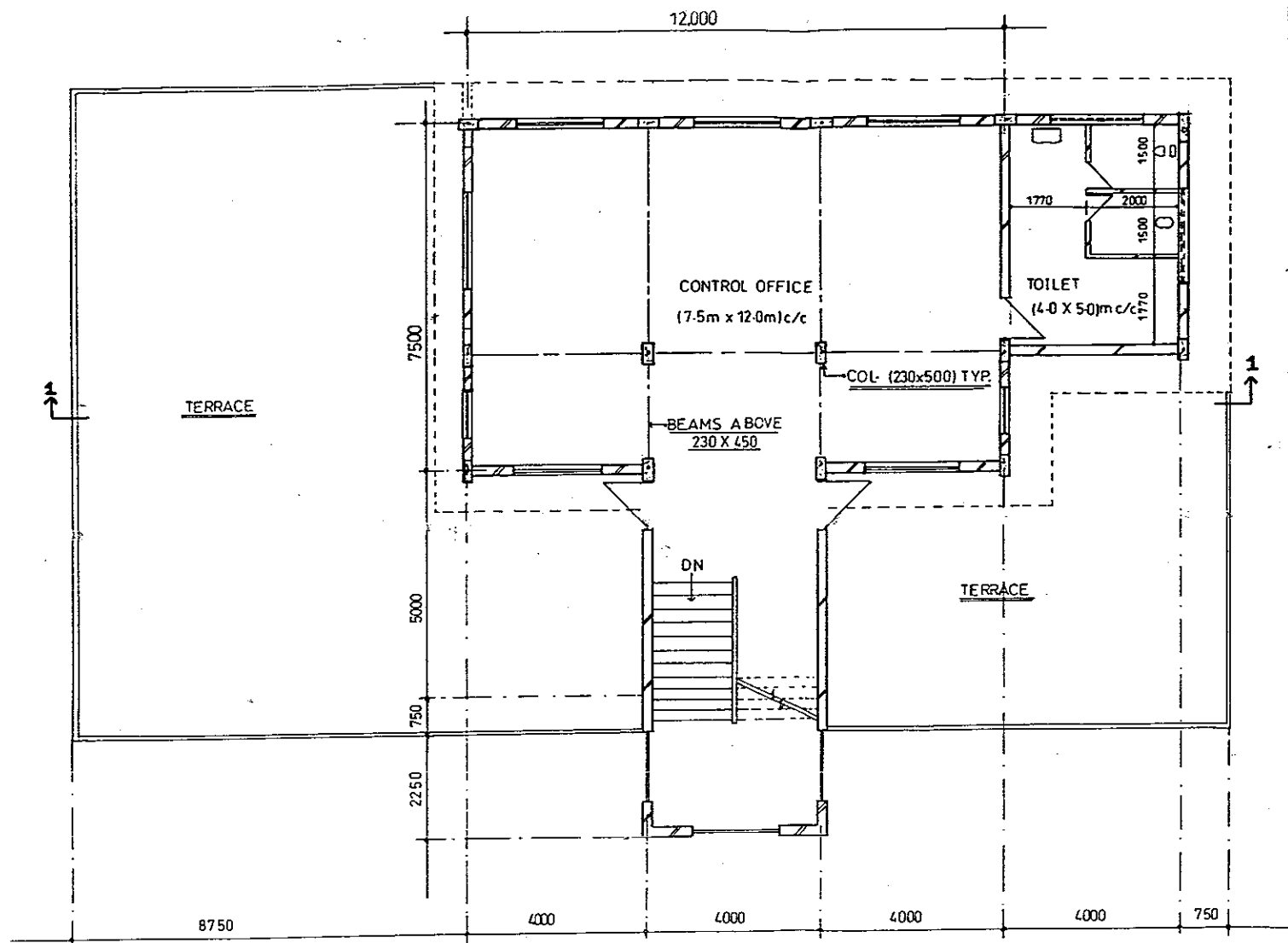


COAL Terminal - 2



COAL Terminal-1

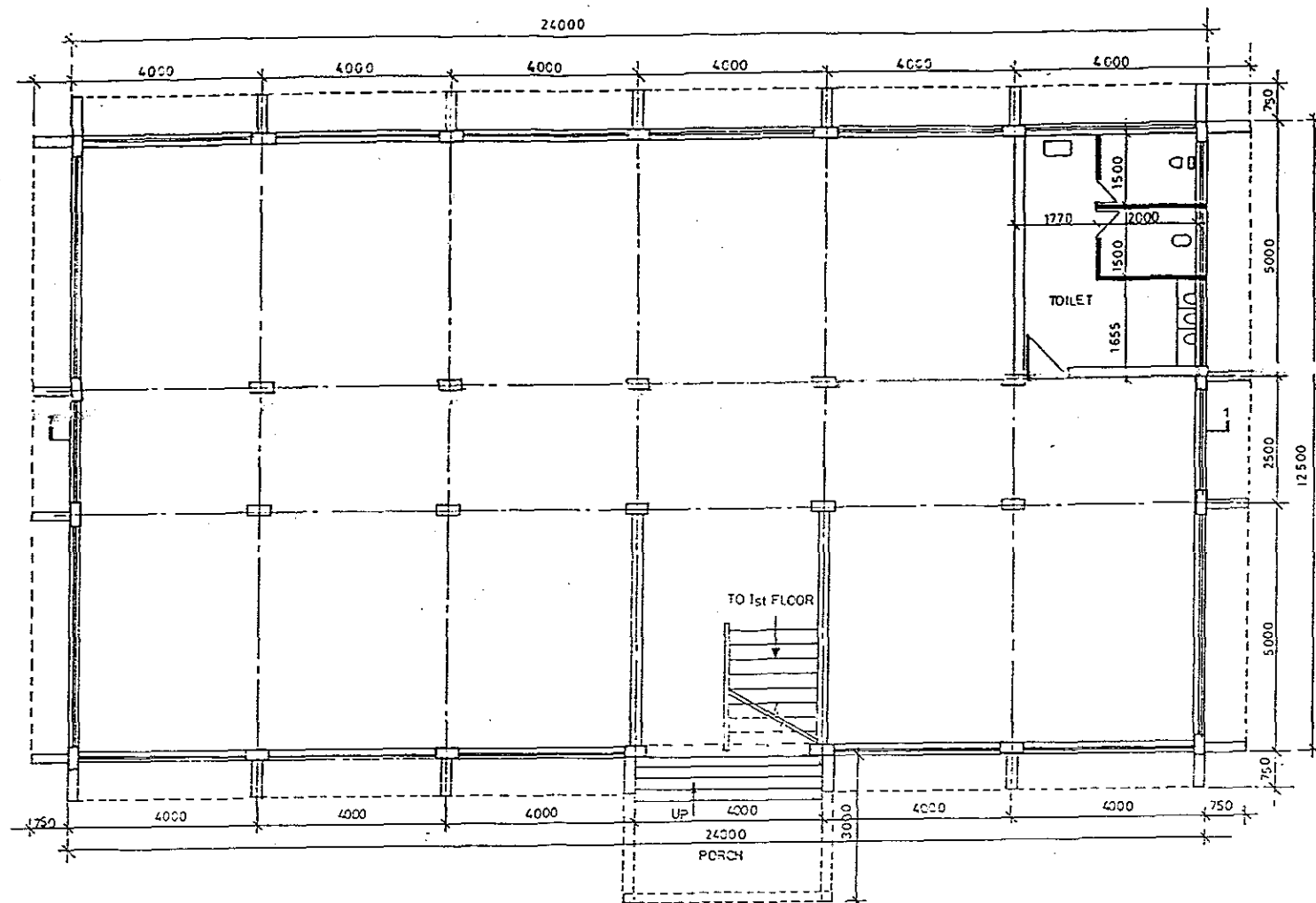
Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Operation Building			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 2-08 (Sheet 3 of 3)	0



Plan of Control office (II nd floor of Operation Build.)

Size (7.5m x 12.0m)

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD Detailed Project Report for Development of Port Facilities at Positra			
Operation Building			
Scale	Date	Drg. No.	Rev
As Shown	Dec., 1997	GMB-DPR-SEC 2-08 (Sheet 2 of 3)	0

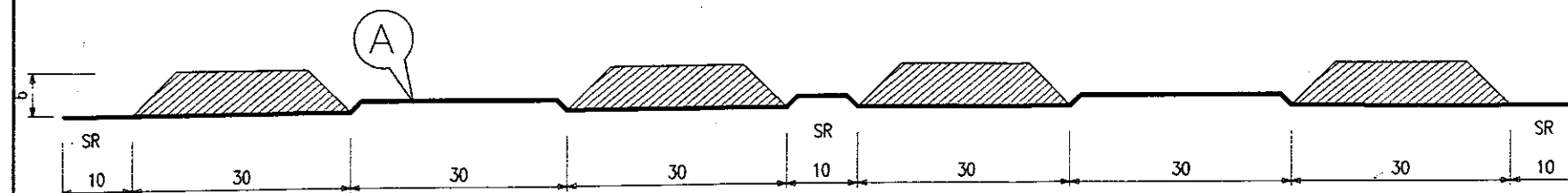


Operation Building

Area- 12.5 x 24.0m

SCALE - 1:100

Frederic R. Harris, Inc. Engineers, Planners, Economists & Consultants			
GUJARAT MARITIME BOARD			
Detailed Project Report for Development of Port Facilities at Posit			
Operation Building			
Scale	Date	Drg. No.	R
As Shown	Dec., 1997	GMB-DPR-SEC 2-08 (Sheet 1 of 3)	



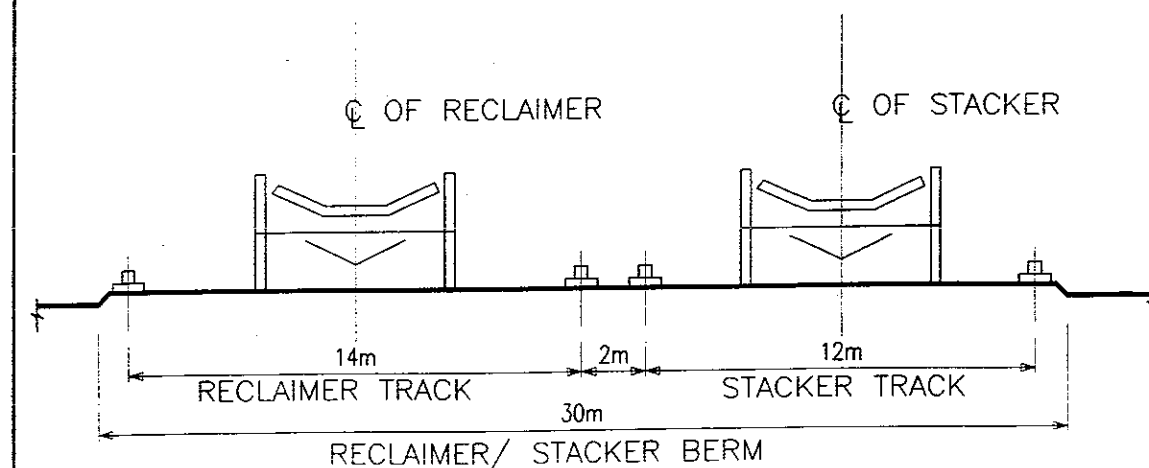
TYPICAL CROSS SECTION THROUGH STOCK PILES

NOTES:

- 1 ALL DIMENSIONS ARE IN METRES.
- 2 ALL STOCK PILE FLOORS SLOPING TOWARDS DRAINAGE.

LEGEND:

- 1 SR—SERVICE ROAD WITH DRAINAGE
- 2  —COAL STOCK PILE



DETAIL (A)

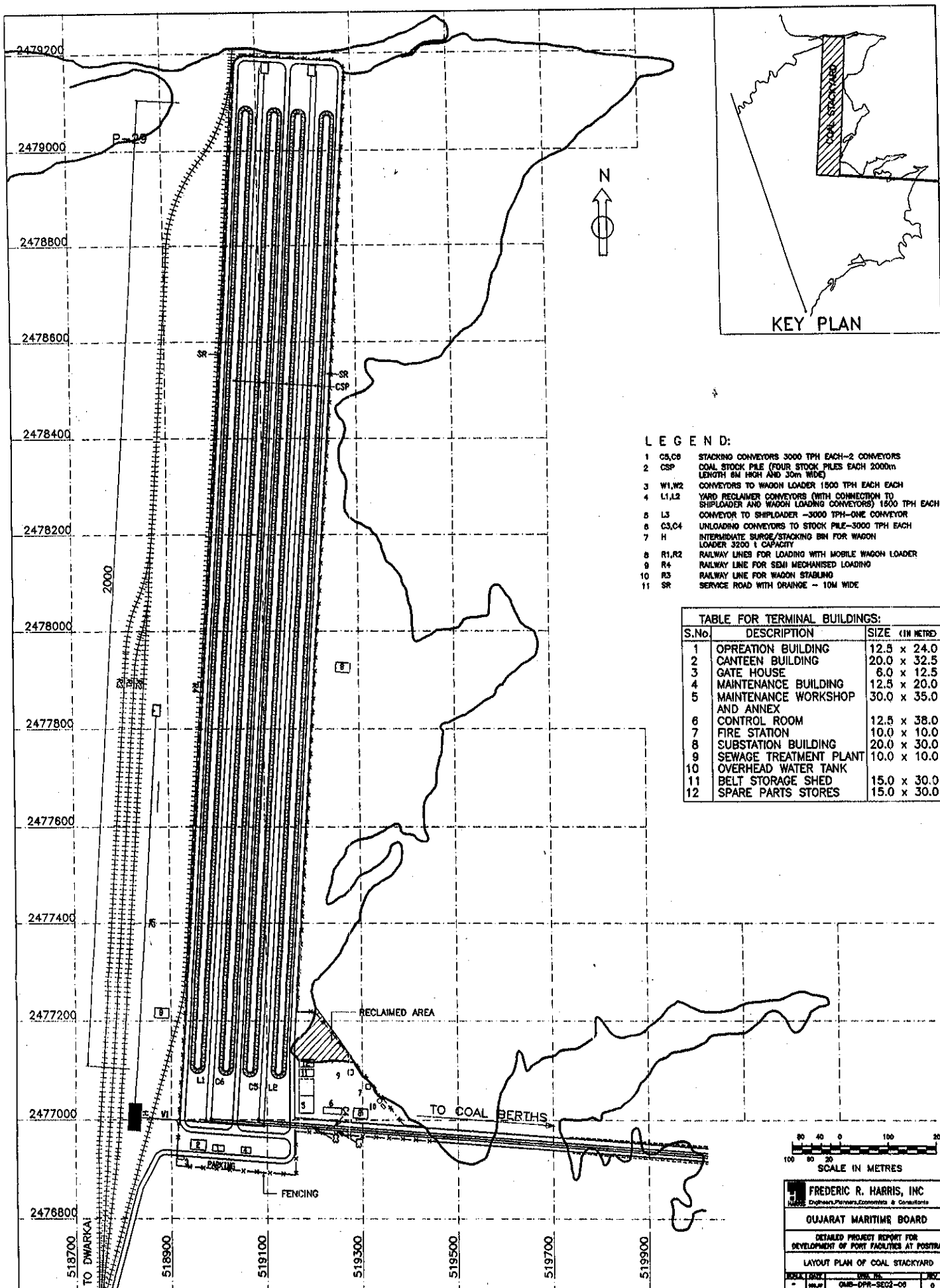
FREDERIC R. HARRIS, INC
HARRIS Engineers, Planners, Economists & Consultants

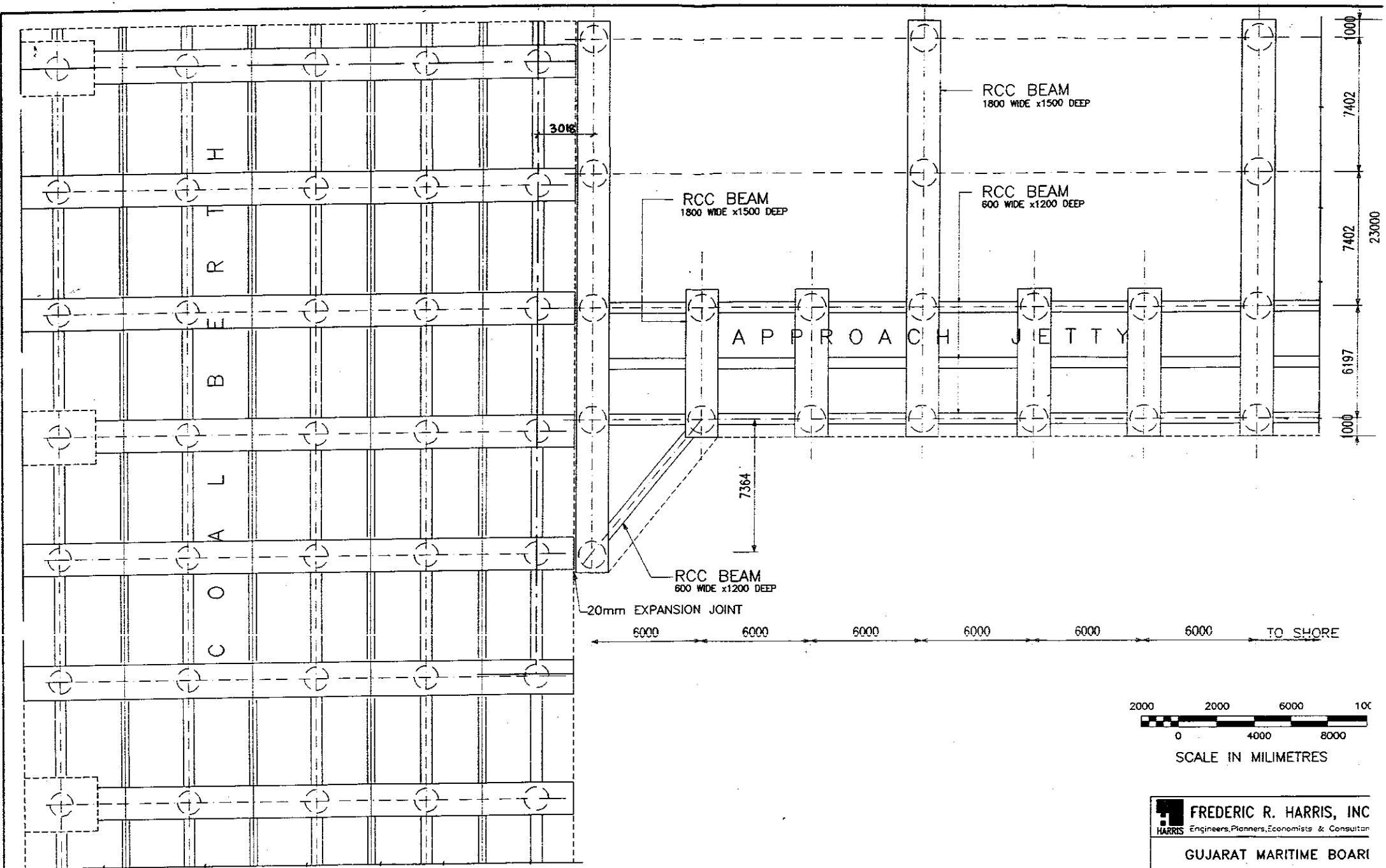
GUJARAT MARITIME BOARD

DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT PORT

TYPICAL CROSS SECTION THRU
COAL STACKYARD

SCALE	DATE	DRG. No.
	DEC. 87	GMB-DPR-SEC2-07





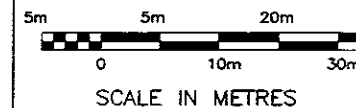
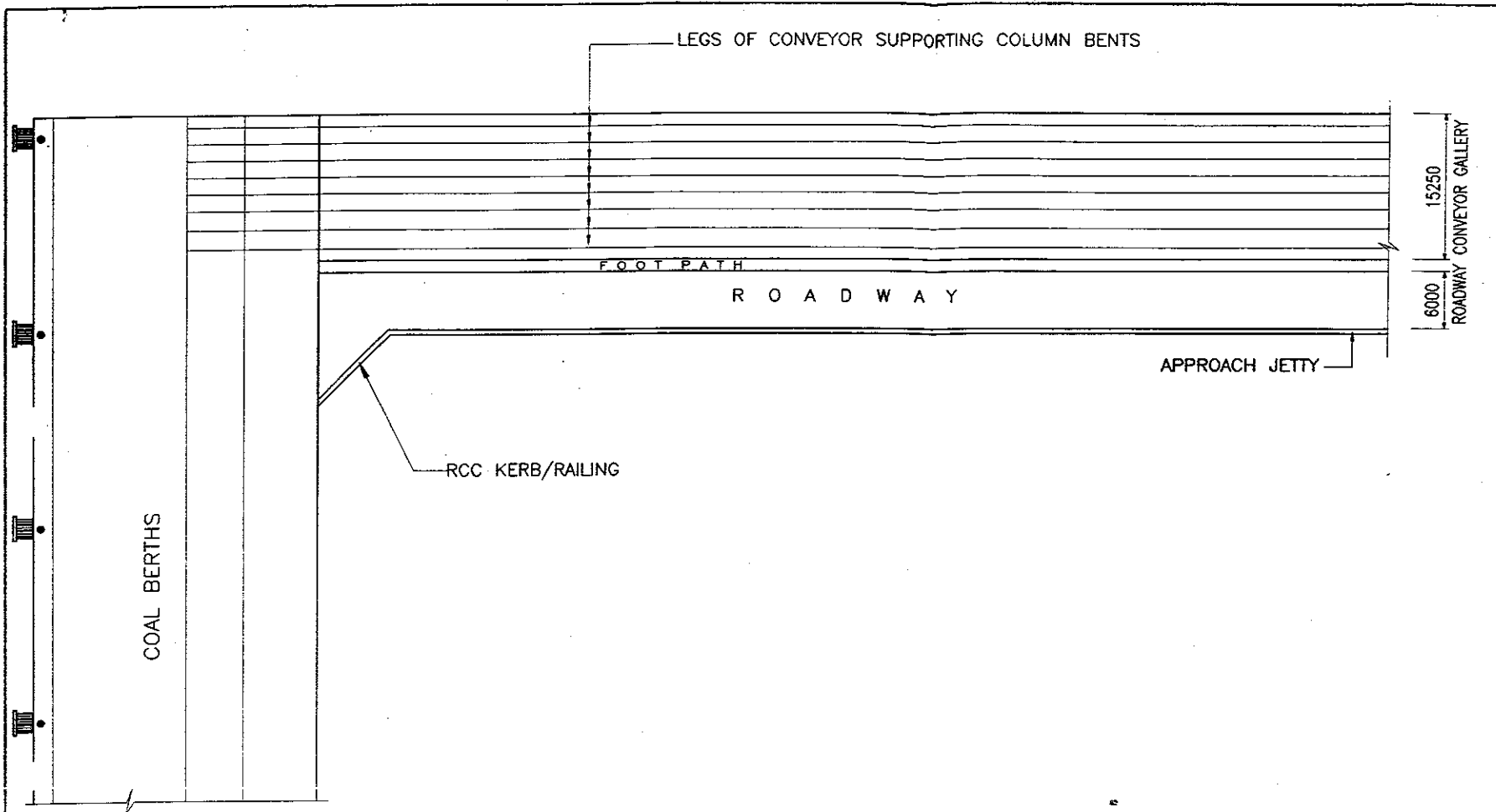
FREDERIC R. HARRIS, INC
HARRIS Engineers, Planners, Economists & Consultants

GUJARAT MARITIME BOARD

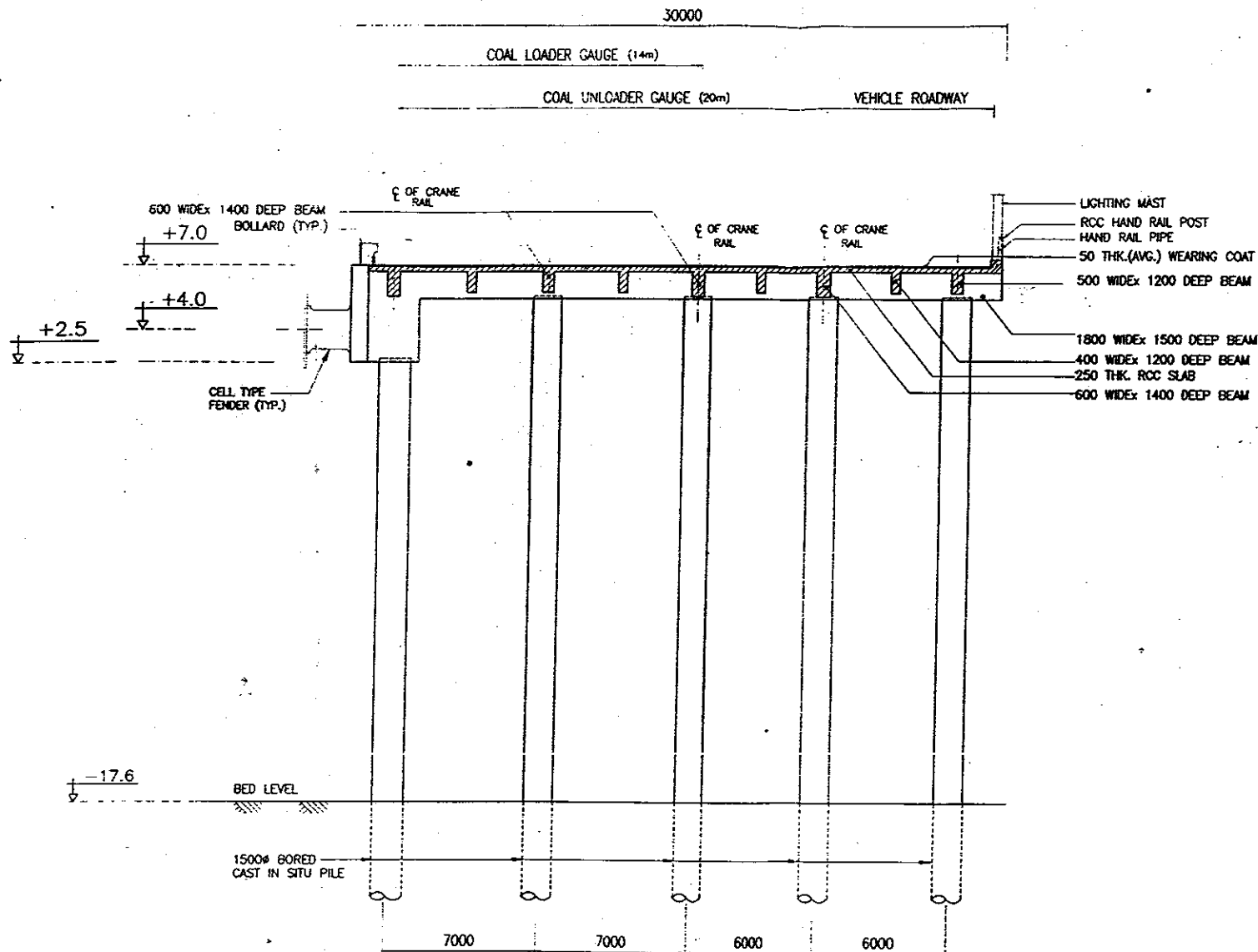
DETAILED PROJECT REPORT FOR
DEVELOPMENT OF PORT FACILITIES AT PC

STRUCTURAL G.A. OF COAL
APPROACH JETTY

SCALE	DATE	DRG. No.
1:100	01/01/05	CMB-DPR-SEC2-05
(SHEET 2 OF 3)		

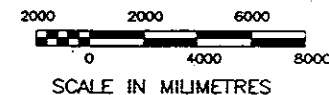


	FREDERIC R. HARRIS, INC
HARRIS	Engineers, Planners, Economists & Consultants
GUJARAT MARITIME BOARD	
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT PO	
LAYOUT PLAN OF COAL APPROACH JETTY	
SCALE	DATE
—	DEC-97
DRG. No.	
GMB-DPR-SEC2-05	
SHEET 1 OF 3	

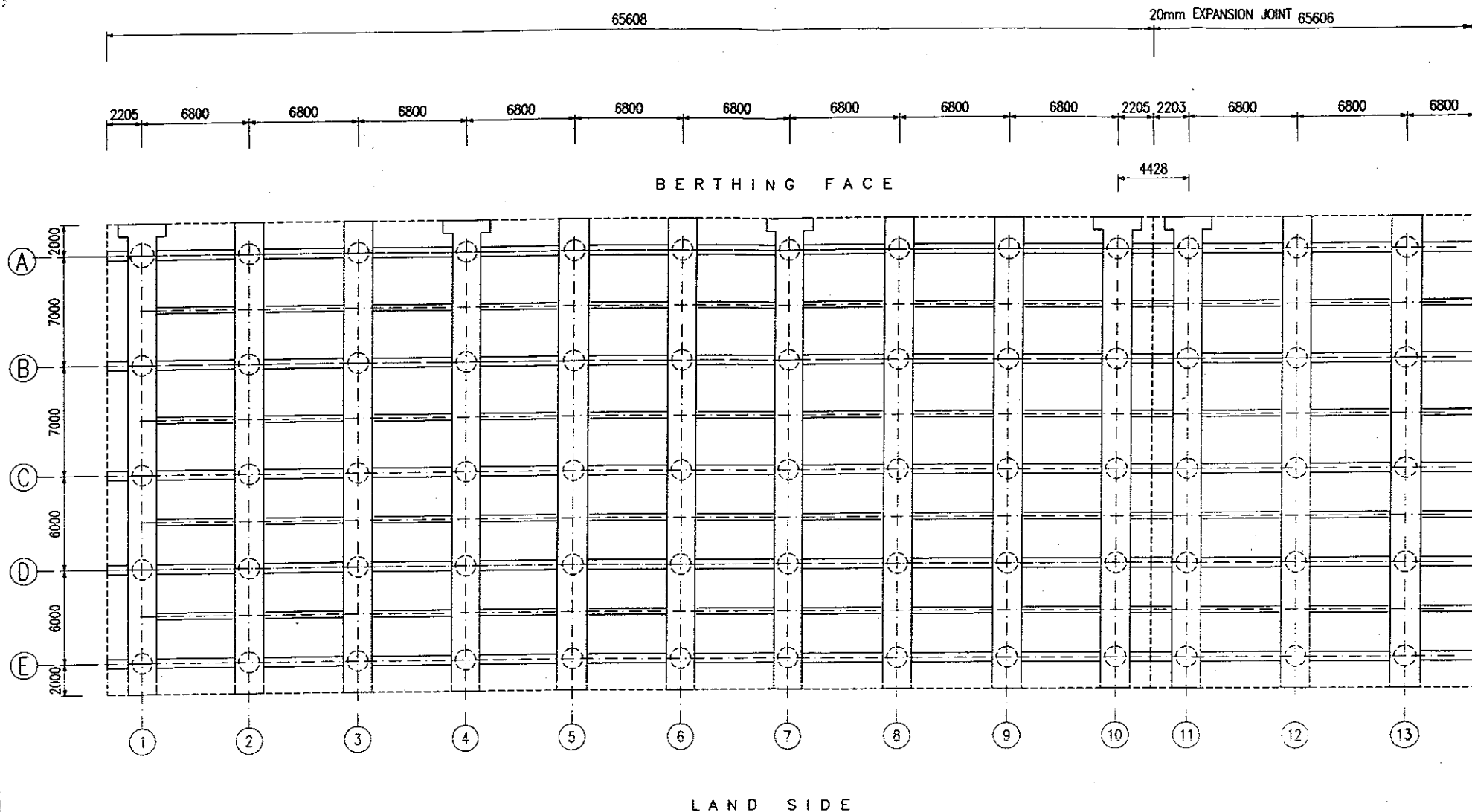


NOTES:

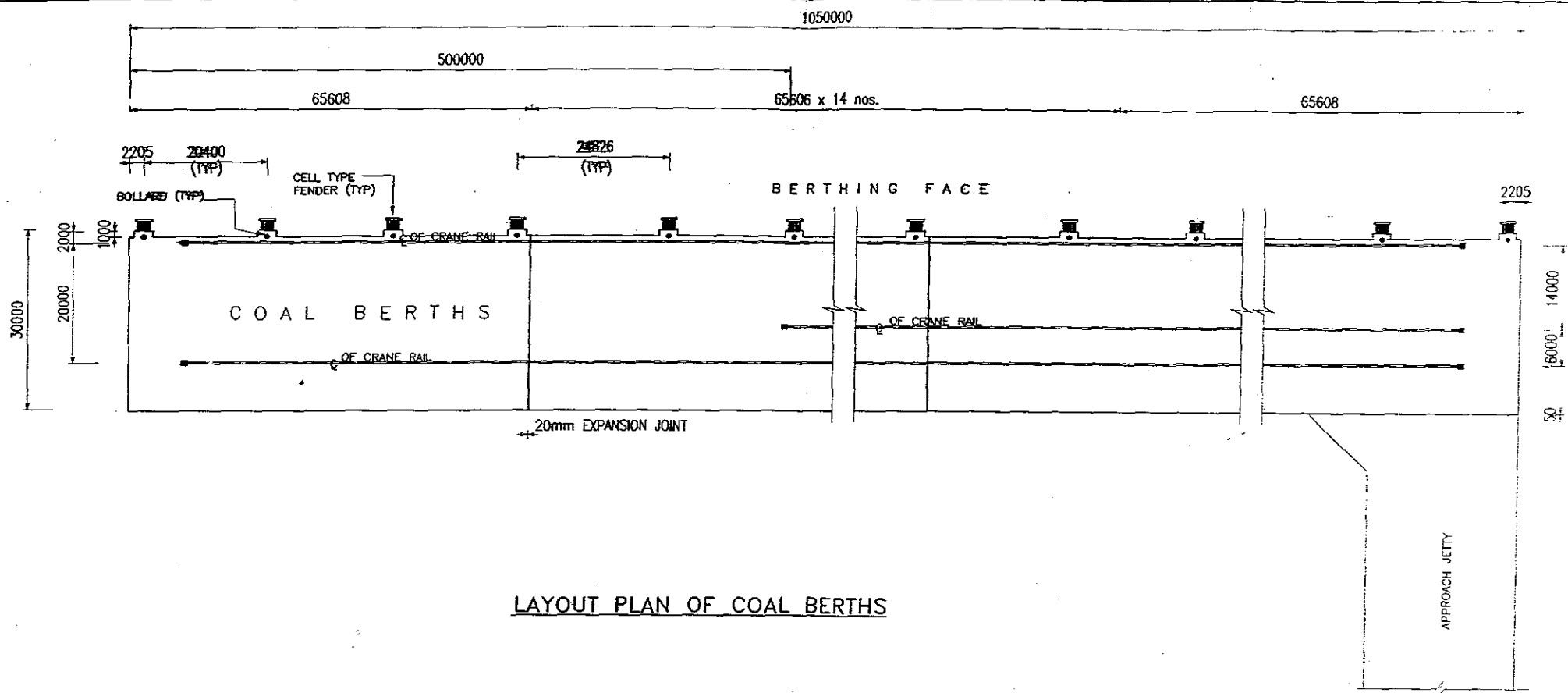
- ALL DIMENSIONS ARE IN MILLIMETRE
- ALL LEVELS ARE IN METRE AND WITH RESPECT TO CHART DATUM.



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GUJARAT MARITIME BOARD		
DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITP		
TYPICAL CROSS SECTION OF COAL BERTH		
SCALE / DATE	DWG. No.	REV
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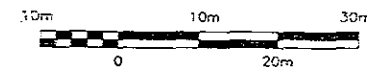
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DETAILED PROJECT REPORT FOR DEVELOPMENT OF PORT FACILITIES AT POSITRA			
STRUCTURAL G.A. OF COAL BERTH			
SCALE	DATE	DRG. No.	REV
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LAYOUT PLAN OF COAL BERTHS

NOTES:

- o ALL DIMENSIONS ARE IN MILLIMETRE
- o ALL LEVELS ARE IN METRE AND WITH RESPECT TO CHART DATUM.



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LAYOUT PLAN OF COAL BERTHS			
SCALE	DATE	DRG. No.	RE
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